

Fig. 9

- Si l'on constate que la tension n'augmente plus en continuant de tourner ou que l'on a atteint les deux butées, on peut décaler la plage de réglage en soudant C114 (CH1), C24 (CH2) ou en coupant C113 (CH1), C213 (CH2) aux endroits prévus sur le côté des conducteurs.
- Presser la touche STOP et mettre l'appareil hors tension.
- Retirer à nouveau l'ERASE AMPLIFIER BOARD de l'EXTENDER BOARD et enficher.

**4.7.4 Réglage du courant d'effacement**

- Relier la sonde d'oscilloscope au point de mesure pour le courant d'effacement (ERASE CURRENT) et au point de masse correspondant (BIAS AMPLIFIER BOARD), fig. 20.
- Mettre l'appareil sous tension et sélectionner les deux canaux avec la touche READY. Faire démarrer l'appareil en enregistrement.
- Au moyen des potentiomètres de courant d'effacement RA108/208 (fig. 20) pour chaque canal, régler un courant d'effacement de 600 mA crête-crête (1 mV de tension correspond à 1 mA de courant).
- Presser la touche STOP. Les miroirs des têtes d'enregistrement et de reproduction doivent être recouverts au crayon gras dans la zone de l'entrefer. Faire défiler brièvement la bande magnétique et contrôler que l'entrefer se trouve au milieu de la plage polie autrement voir 4.3.2.
- Nettoyer le miroir.

**4.7.5 Reproduction**

- Mettre l'appareil hors tension, nettoyer à fond le passage de la bande et démagnétiser les têtes.
- Raccorder le millivoltmètre BF à LINE OUTPUT CH1 (CH2), poser la bande de référence de reproduction.
- Mettre l'appareil sous tension, mettre les amplificateurs d'entrée et de sortie sur CAL et les deux canaux sur REPRO.
- Reproduire à 10 kHz avec la bande de référence.

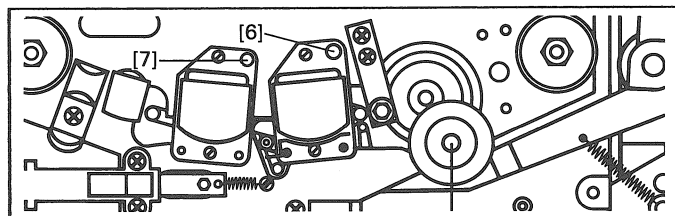


Fig. 10

- Régler la phase pour le maximum de tension au moyen de la vis de réglage [6] (fig. 10) sur la tête de reproduction.
- Raccorder parallèlement au millivoltmètre les sorties LINE OUTPUT CH1 et CH2.
- A la reproduction à 10 kHz de la bande de référence, régler à nouveau au maximum de tension.
- Traiter à nouveau les deux LINE OUTPUTS séparément.
- Dans la plage de niveau à la fréquence de 1 kHz, régler les potentiomètres de niveau: RA116 HS CH1, RA216 HS CH2, RA122 LS CH1, RA222 LS CH2 sur le REPRODUCE EQUALIZER BOARD (fig. 20) pour obtenir un niveau de sortie de 0 dBu (IEC) ou +4 dBu (NAB) à 257 nWb/m. On a: 257 nWb/m 0 VU.
- Faire défiler la bande jusqu'au secteur 10 kHz.
- Régler les potentiomètres Treble: RA112 HS CH1, RA212 HS CH2, RA118 LS CH1, RA218 LS CH2 sur le REPRODUCE EQUALIZER BOARD (fig. 20) pour régler à nouveau le niveau de sortie suivant le flux magnétique.
- Contrôler la courbe de réponse de reproduction à l'aide de la bande de référence.

**4.7.6 Adaptation de la tête d'enregistrement**

- Poser une bande magnétique et court-circuiter la prise LINE OUTPUT CH1 (les 3 prises les unes contre les autres).
- L'appareil hors tension, enficher le BIAS AMPLIFIER BOARD sur l'EXTENDER BOARD.
- Relier le multimètre (-) à P5 (fig. 14), (+) au point de mesure 37 (EXT. BOARD). Raccorder la sonde d'oscilloscope à P4 (fig. 11), la masse au point de mesure 39 (EXT. BOARD).
- Mettre l'appareil sous tension, présélectionner READY et initialiser l'enregistrement.

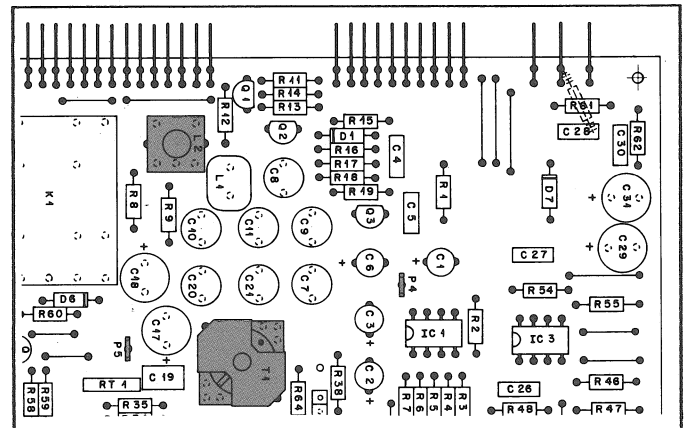


Fig. 11

- Régler T1 (fig. 11) pour le minimum de tension au multimètre.
- Régler L2 (fig. 11) pour le minimum HF à l'oscilloscope.
- L'alignement pour le canal 2 se fait de la même manière.
- Retirer l'EXTENDER BOARD, remettre le BOARD.

- Appliquer avec le générateur un signal de 10 kHz à l'entrée au niveau de -20 dBu.
- Relier LINE OUTPUT CH1 au millivoltmètre BF.
- Régler la vis [7] de la tête d'enregistrement (fig. 10) pour le maximum de tension au millivoltmètre BF.
- Relier les deux LINE OUTPUTs parallèlement au millivoltmètre BF.
- Régler la vis de réglage [7] pour le maximum de tension de sortie. (Attention à la temporisation entre la tête d'enregistrement et la tête de reproduction).
- Presser la touche STOP et mettre l'appareil hors tension.

#### 4.7.7 BIAS

- Relier le millivoltmètre BF et le générateur (10 kHz -20 dBu) à LINE INPUT ou respectivement OUTPUT CH1 (CH2).
- Tourner jusqu'à la butée gauche le potentiomètre BIAS CH1 RA1 (CH2 RA2), sur l'ERASE AMPLIFIER BOARD (fig. 20).
- Mettre l'appareil sous tension, présélectionner READY et démarrer en enregistrement.

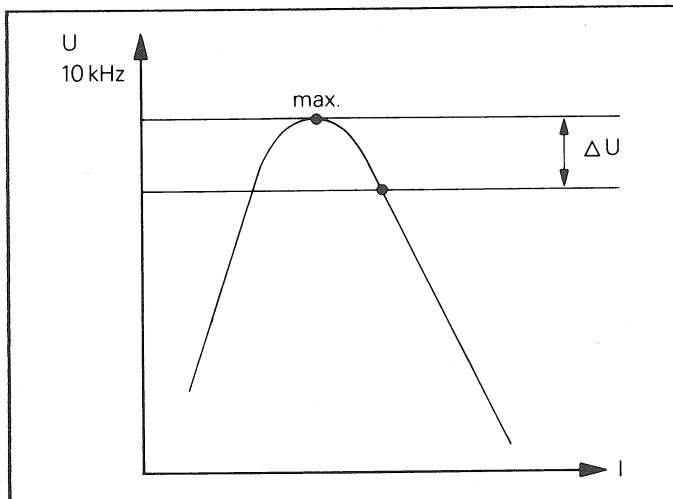


Fig. 12

- Tourner lentement le potentiomètre BIAS correspondant dans le sens horaire jusqu'à ce que le millivoltmètre BF indique le maximum de tension de sortie.
- Continuer à tourner soigneusement dans le sens horaire jusqu'à ce que la différence de tension ( $\Delta U$ ) selon fig. 12 soit atteinte.

Tape Speed	9.5 cm/s 3 3/4 ips	19cm/s 7 1/2 ips	38cm/s 15 ips
Type of Tape	$\Delta U(\text{dB})$	$\Delta U(\text{dB})$	$\Delta U(\text{dB})$
REVOX 601	5	4	3
REVOX 621	4,5	4	3
REVOX 631	6	6	4
REVOX 641	6	5	4
SCOTCH 206	5	4	3
SCOTCH 207	5	4	3
SCOTCH 226	6	6	4
SCOTCH 250	5	6	4
SCOTCH 256	6	6	4
SCOTCH 262/263	6	6	3
SCOTCH classic	5	5	3
Ampex 406	6	5	4
Ampex 407	6	5	4
Ampex 456	5	6	4
Agfa PEM 368	5	5	4
Agfa PEM 369	6	6	3
Agfa PEM 468	6	6	4
Agfa PEM 469	7	7	5
Agfa PER 525	6	5	3
Agfa PER 528	6	6	4
BASF LPR-35LH	6	5	4
BASF SPR50 LHL)	6	5,5	3,5
BASF LGR 30P	6	5,5	4
BASF LGR 50	6	6	4
BASF LGR 51	6	6	4
BASF Studio Master 911	6	8	4,5
Maxell UD-XL	6	5	4
TDK AUDUA	6	5	4
EMI 816/817	6	6	4

#### 4.7.8 Courbe de réponse sur bande

- Appliquer un signal sinusoïdal de 1 kHz à -20 dBu (IEC) ou -16 dBu (NAB) et régler pendant l'enregistrement, avec présélection REPRO, les potentiomètres (fig. 20):  
RA13 MS CH1  
RA14 LS CH1  
RA23 MS CH2  
RA24 LS CH2  
sur le RECORD EQUALIZER BOARD pour un niveau de sortie de -20 dBu (IEC) ou -16 dBu (NAB).
- Augmenter la fréquence du générateur à 10 kHz au même niveau et régler comme pour 1 kHz les niveaux de sortie au moyen des potentiomètres Treble (fig. 20):  
RA11 HC CH1  
RA12 LS CH2  
RA21 HS CH1  
RA22 LS CH2  
sur le RECORD EQUALIZER BOARD. La courbe de fréquence doit être contrôlée conformément aux caractéristiques techniques (voir 4.7.10).
- Régler la fréquence de générateur 1 kHz et augmenter le niveau à 0 dBu (IEC) ou 4 dBu (NAB).
- Régler les potentiomètres REPRO ADJ. (fig. 21) sur la partie de commande pour que le VU-mètre indique 0 VU (RA1 CH1, RA101 CH2).

#### 4.7.9 Amplificateur Sync

- Enficher le PREAMPLIFIER BOARD sur l'EXTENDER BOARD.
- Relier la sonde de l'oscilloscope au point de mesure 28 (masse) et 29 pour canal 1 ou 30 (masse) et 31 pour canal 2. Tous les raccords de mesure se trouvent sur l'EXTENDER BOARD.
- Court-circuiter les deux LINE INPUTS (les 3 broches les unes contre les autres), présélectionner READY et REPRO. Faire démarrer l'appareil en enregistrement.
- Régler L101 (CH1) ou L201 (CH2) pour le minimum de HF à l'oscilloscope (fig. 13).
- Mettre l'appareil sur STOP et raccorder l'oscilloscope avec la masse au point de mesure 39 de l'EXTENDER BOARD et au PREAMPLIFIER BOARD à la broche 5 ICE103 (CH1) et la broche 5 ICE203 (CH2) (fig. 12).
- Présélectionner les deux canaux sur Sync et reproduire une partie de bande effacée précédemment (pas de bande neuve).
- Régler L102 (CH1) ou L202 (CH2) pour le minimum de HF à l'oscilloscope (fig. 12).

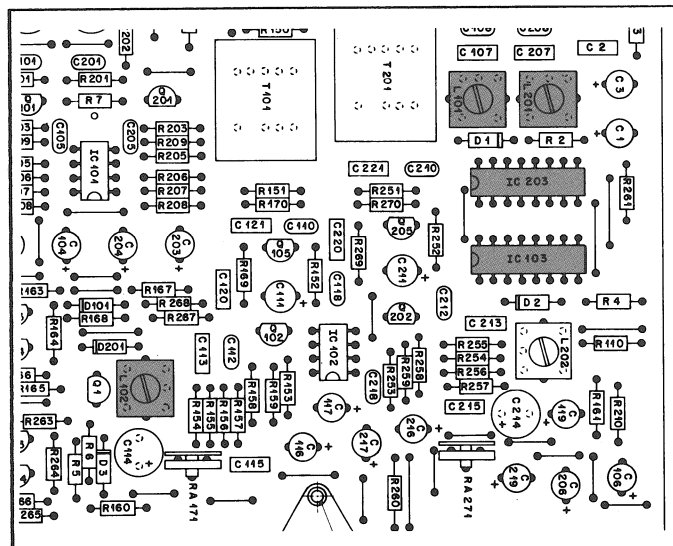


Fig. 13

- Mettre l'appareil sur Stop et hors tension. Retirer l'EXTENDER BOARD.
- Enregistrer sur les deux canaux une fréquence de 1 kHz au niveau de 0 dB (IEC) ou +4 dB (NAB) pendant 1 minute environ.
- Reproduire la partie de bande enregistrée précédemment et régler les potentiomètres SYNC REPRODUCE RA171 CH1 (RA271 CH2) sur le PREAMPLIFIER BOARD (fig. 20) pour un niveau de 0 dBu (IEC) ou +4 dBu (NAB).

#### 4.7.10 Contrôle de courbe de fréquence sur bande

- Le contrôle de bande passante sur bande se fait avec un niveau de générateur de -20 dB.
- Ensuite, la bande peut être rebobinée au début du contrôle de bande passante et la courbe de réponse Sync contrôlée lors d'une nouvelle reproduction.

**4.8 MESURE DE DIVERSES CARACTERISTIQUES**

**4.8.1 Taux de distorsion sur bande**

La mesure du taux de distorsion pour magnétophones à bande exige un filtre K3 (3e harmonique). La fréquence de générateur BF (500 Hz) doit être choisie en fonction du filtre disponible (fréquence du filtre: 1500 Hz).

La mesure se fait en fonction du niveau maximum.

- Relier le générateur BF à l'entrée INPUT CH1 CH2.
- Régler la fréquence.
- Relier le pont de mesure de distorsion à la sortie.
- Mettre une bande neuve et faire démarrer l'enregistrement. Mesurer le facteur de distorsion; les valeurs de référence sont données dans les caractéristiques techniques.

**4.8.2 Rapport signal/bruit de fond sur bande**

- Les rapports signal/bruit de fond sont indiqués par rapport au niveau maximal.

Vitesse	IEC	NAB
9,5 cm/s	400nW/m	400nW/m (0 VU +3,8dB)
19 cm/s	514nW/m	514nW/m (0 VU +6,0 dB)
38 cm/s	514nW/m	514nW/m (0 VU +6,0 dB)

Pour éviter les erreurs de mesure par des inductions HF, la mesure se fait au moyen d'une bande effacée sur l'appareil.

- Relier le millivoltmètre BF à la sortie LINE OUTPUT CH1 (CH2).
- Faire démarrer l'appareil en reproduction et mesurer le rapport signal/bruit de fond avec le filtre correspondant. Si les valeurs ne sont pas atteintes, démagnétiser à nouveau soigneusement les guides de bande et les têtes.

**4.8.3 Efficacité d'effacement**

Pour mesurer l'efficacité d'effacement, on enregistre une fréquence BF qui est ensuite effacée. L'enregistrement restant sur la bande est mesuré. La mesure se fait par rapport au niveau maximal.

- Présélectionner la fréquence de générateur BF de 1 kHz.
- Relier le millivoltmètre BF à OUTPUT CH1 (CH2), filtre enclenché. Relier le générateur BF à INPUT CH1 (CH2), 0 VU, +6 dB.
- Poser une bande neuve, faire démarrer l'enregistrement et faire un bref enregistrement. Mettre la machine sur STOP et rebobiner au début de l'enregistrement.
- Faire démarrer l'appareil en reproduction et mesurer l'efficacité d'effacement.

**4.8.4 Diaphonie mono**

Pour cette mesure, il est recommandé d'utiliser une bande magnétique neuve. La mesure se fait par rapport au volume maximal. Mettre l'appareil en mode CAL.

- Relier le générateur BF (1 kHz) à LINE INPUT CH1. Poser une bande et faire un enregistrement d'environ 1 minute (CH1 seulement)
- Rebobiner la bande au début de l'enregistrement.
- Relier un voltmètre sélectif à LINE OUTPUT CH2.
- Mettre l'appareil en reproduction et mesurer la diaphonie CH1 -> CH2.
- Pour enregistrer le canal droit, faire avancer la bande à l'endroit sans enregistrement.
- Relier le générateur BF à LINE INPUT CH2. Répéter le même enregistrement de CH2 sur CH1.
- Relier un voltmètre sélectif à LINE OUTPUT CH1.
- Mettre l'appareil en reproduction et mesurer la diaphonie CH2 -> CH1.

**4.8.5 Diaphonie stéréo**

La mesure se fait par rapport au niveau maximal. Pour la mesure de la diaphonie stéréo:

- Relier le générateur BF à LINE INPUT CH1 et un voltmètre sélectif à LINE OUTPUT CH2.
- Régler le générateur BF à 1 kHz à niveau maximal.
- Faire démarrer l'appareil en enregistrement (CH1 + CH2) et mesurer le niveau d'affaiblissement de diaphonie sur CH2.
- Relier le générateur BF à LINE INPUT CH2 et un voltmètre sélectif à LINE OUTPUT CH2. Faire un enregistrement et mesurer l'affaiblissement de diaphonie sur CH1.

**4.8.6 Pleurage**

Les valeurs indiquées dans les caractéristiques techniques doivent être mesurées au moyen d'un appareil de mesure de pleurage selon DIN 45507.

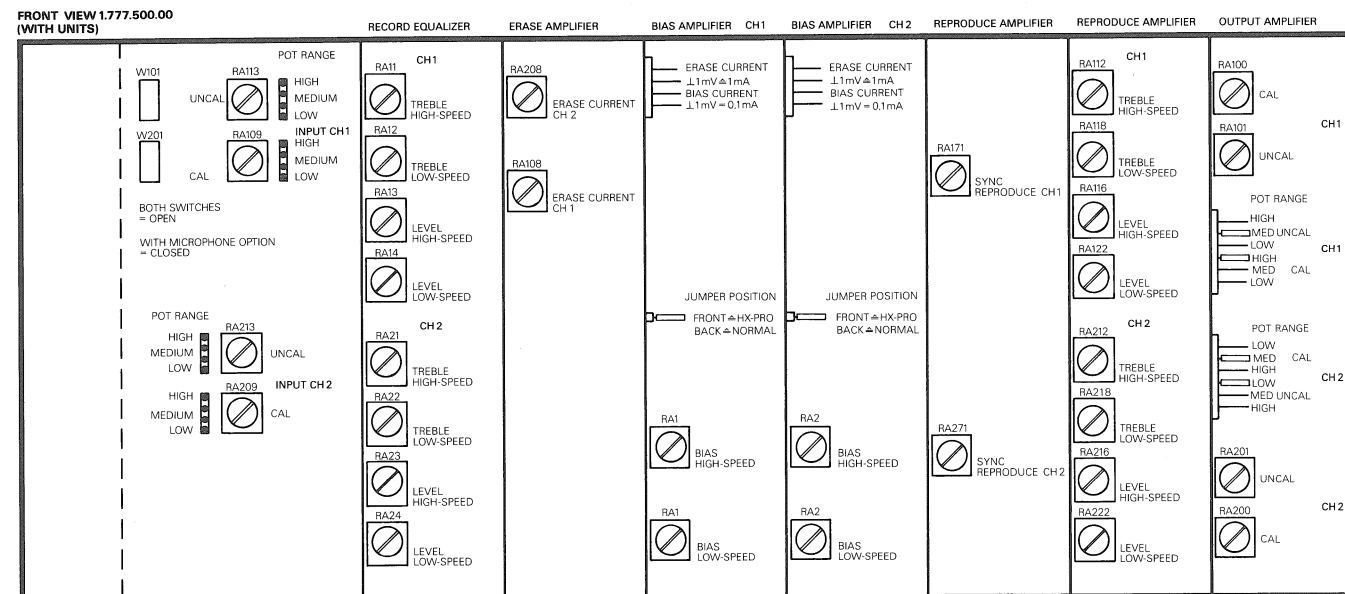


Fig. 20

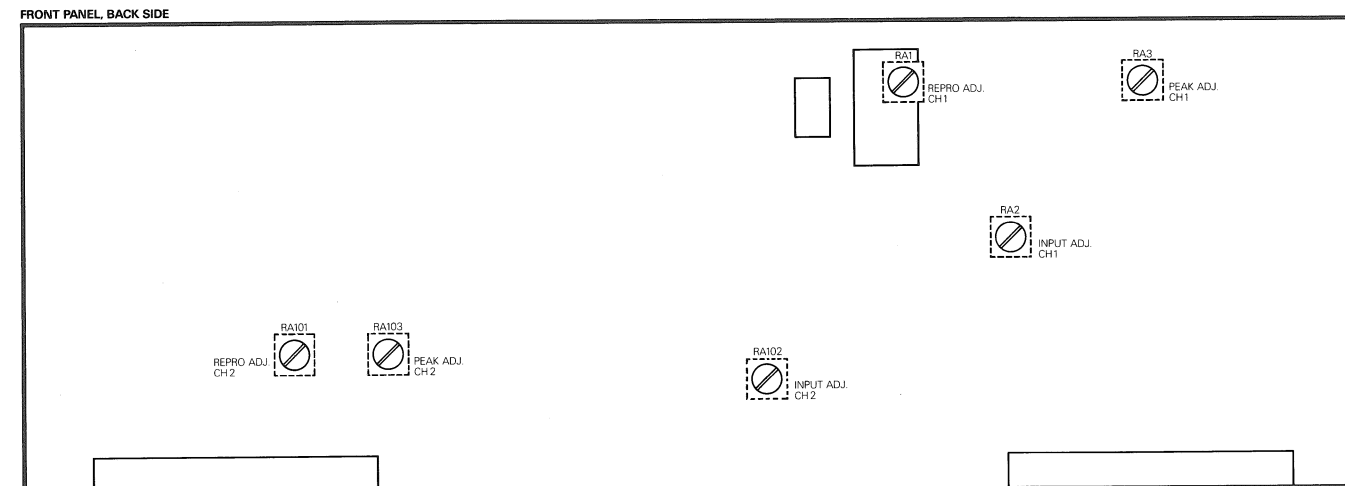
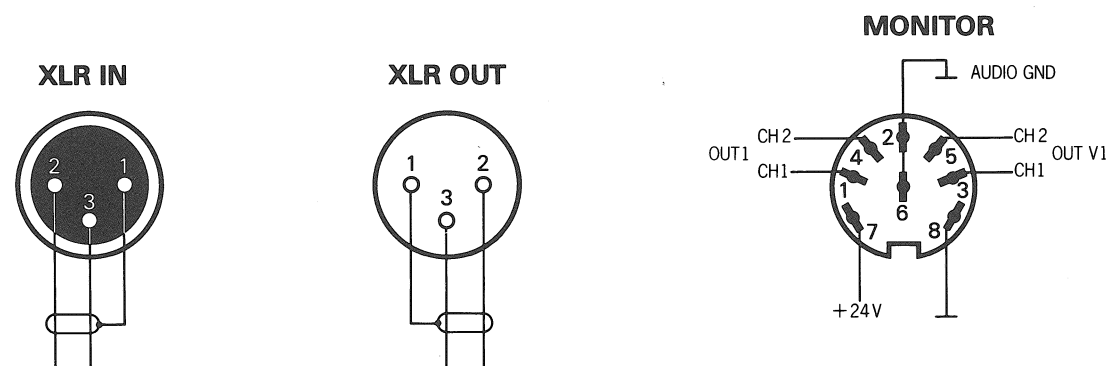


Fig. 21



**5. CARACTERISTIQUES TECHNIQUES**

Toutes les caractéristiques audio spécifiques à la bande sont données pour les types suivants:

- Version IEC: AGFA PEM 468
- Version NAB: 3M 226

Type d'appareil: magnétophone à 2 canaux

Bande: 1/4" (6,35 mm)

Mécanisme: mécanisme à 3 moteurs: 2 moteurs AC réglés, 1 moteur de cabestan à commutation Hall réglage électronique.

Vitesses de défilement: 9,5/19, 19/38 ou 9,5/38 cm/s à sélection par commutateurs internes.

Dérive de la vitesse nominale:  $\pm 0,2\%$

Plage Varispeed: -33% à +50% de la vitesse nominale

Pleurage: (DIN 45507)	diamètre de noyau $\geq 10$ cm	diamètre de noyau $\geq 6$ cm	
à 9,5 cm/s	< 0,10 %	< 0,1 %	
à 19 cm/s	< 0,07 %	< 0,1 %	
à 38 cm/s	< 0,05 %	< 0,1 %	
Glissement:	max. 0,2 %		
Temps de démarrage selon DIN:	max. 500 ms à 38 cm/s		
Temps de robinage:	env. 130 s pour bande 1100 m		
	env. 90 s por bande 760 m		
Dimensions des bobines:	diamètre max. 265 mm		
Commande du mécanisme:	commandé par logique $\mu P$ , avec fin de bande, état du galet de compteur et de la position du levier de tension de bande. Possibilité de Tape-Dump et Fader Start.		
Comptuer de bande:	indication en temps réel en heures, minutes et secondes conformément à la vitesse de bande choisie.		
	Précision: 0,25%		
	Zero-Locator, Address-Locator et mode de boucle possibles.		
Corrections:	NAB et IEC comme unités enfichables dans les circuits d'enregistrement et de reproduction.		
	NAB 9,5 cm/s:	90 - 3180 $\mu s$	
	19 cm/s:	50 - 3180 $\mu s$	
	38 cm/s:	50 - 3180 $\mu s$	
	IEC 9,5 cm/s:	90 - 3180 $\mu s$	
	19 cm/s:	70 $\mu s$	
	38 cm/s:	35 $\mu s$	
Courbe de réponse:	(sur bande, à -20 VU)		
	à 9,5 cm/s	30 Hz..14 kHz	$\pm 2$ dB
		50 Hz.. 8 kHz	$\pm 1$ dB
	à 19 cm/s	30 Hz..18 kHz	$\pm 2$ dB
		50 Hz..12 kHz	$\pm 1$ dB
	à 38 cm/s	30 Hz..22 kHz	$\pm 2$ dB
		50 Hz..16 kHz	$\pm 1$ dB
Courbe de réponse en reproduction Sync:			
	à 9,5 cm/s:	100 Hz.. 5 kHz	+2/-3 dB
	à 19 cm/s:	100 Hz.. 8 kHz	+2/-3 dB
	à 38 cm/s:	100 Hz..12 kHz	+2/-3 dB
Niveau maximal d'enregistrement:	514 nWb/m, correspondant à	+6 dB au-dessus de 0 VU	
Indicateur de niveau:	VU-mètre selon norme ASA avec affichage de crête LED pour niveaux de:		+6, +9, +12 dB

Taux de distorsion harmonique:	(k3 at 1 kHz)	
	9,5 cm/s (400 nWb/m)	< 1,5 %
	19 cm/s (514 nWb/m)	< 1,2 %
	38 cm/s (514 nWb/m)	< 1,0 %
Rapport signal/bruit:	(sur bande)	évaluation linéaire/A IEC 179
Version IEC:	9,5 cm/s (400 nWb/m)	> 56 dB / 61 dB
	19 cm/s (514 nWb/m)	> 58 dB / 64 dB
	38 cm/s (514 nWb/m)	> 59 dB / 65 dB
Version NAB:	9,5 cm/s (400 nWb/m)	évaluation linéaire/A IEC 179
	19 cm/s (514 nWb/m)	> 56 dB / 61 dB
	19 cm/s (514 nWb/m)	> 60 dB / 65 dB
	38 cm/s (514 nWb/m)	> 59 dB / 64 dB
Affaiblissement de diaphonie:	stéréo à 1 kHz	> 50 dB
	mono à 1 kHz	> 70 dB
Efficacité d'effacement:	à 19 cm/s	meilleur que -80 dB
	à 38 cm/s	meilleur que -75 dB
Entrées par canal:	(0 dBu = 0,775 V)	
LINE IN:	ligne symétrique (XLR) avec transfo de séparation	
	impédance d'entrée	> 5 kΩ
	CAL (IEC): pour 514 nWb/m	+ 6 dBu
	plage de réglage	-10...+16 dBu
	CAL (NAB): pour Operation Level (0 VU)	+ 4 dBu
	plage de réglage	-10...+16 dBu
	UNCAL: augmentation possible chaque fois de +10 dB each.	
	niveau max.: pour f > 40 Hz	+22 dBu
Entrées micro:	(montage ultérieur possible)	
	entrées symétrique (XLR) avec transfo de séparation	
Impédance d'entrée:	40 Hz..15 kHz	> 1,2 kΩ
Sensitivity:	position "LO"	-70 dBu ... -36 dBu
	position "HI"	-38 dBu ... - 8 dBu
	niveau max	- 8 dBu
Soties par canal:	(0 dBu = 0,775 V)	
LINE OUT:	sortie symétrique (XLR) avec transfo de séparation	
	impédance de sortie	80 Ω
	CAL (IEC): pour 514 nWb/m, 600 Ω	+ 6 dBu
	plage de réglage	-20...+15 dBu
	CAL (NAB): pour OP-level (0 VU), 600 Ω	+ 4 dBu
	plage de réglage	-20...+15 dBu
	UNCAL: augmentation possible chaquefois de +10 dB each.	
Niveau max.:	sur 600 Ω	+22 dBu
	sur 200 Ω	+20 dBu
Phones:	prise jack Ø 6,3 mm protégée contre le court-circuit	
Tension de sortie	à 514 nWb/m	max. 5.6 V
	pour 0 VU	2.8 V
	impédance de sortie:	220 Ω
Monitor:	prise DIN 8 pôles	
Tension de sortie:	à 514 nWb/m	max. 1.8 V
	pour alimentation externe	+ 24 V
	impédance de sortie:	4
	.7 kΩ	
RS-232:	prise à 7 pôles, interface sérielle 9600 Bd, alimentation 24 V pour télécommande manuelle ou Locator externe.	
	duplex, ligne à 3 files (GND, Tx, Rx), 1 bit start, 1 bit stop, 8 bits de données, pas de parité, handshaking logiciel (Xon, Xoff)	
Fader/Sync:	prise DIN 8 pôles pour Fader Start et synchronisation externe du motuer de cabestan, raccord pour tête de lecture de données	
Racord réseau:	à 3 pôles avec terre de protection	
Alimentation:	(sélécteur de tension)	
	100, 120, 140, 200, 220, 240 V AC	50 ... 60 Hz

Consommation:	max. 125 W	
Fusible de réseau:	100 ... 140 V:T 2,5 A / 250 V (SLOW) 200 ... 240 V:T 1,25A / 250 V (SLOW)	
Conditions de service:	température ambiante humidité relative (DIN 40040)	+10°C ... +40°C Category F
Position de service:	quelconque entre l'horizontale et la verticale	
Poids:	support de bâti compris	23 kg
Dimensions extérieures:	avec support de bâti (L-H-P) sans support de bâti largeur de montage avec support	482-443-202 mm 434-443-202 mm 442 mm

## Variante 1/4 - piste:

Rapport signal / bruit	(mesuré après bande)	linéaire / pondéré A IEC179
Version IEC:	9,5 cm/s (400 nWb/m)	> 52 dB / 57 dB
4 pistes	19 cm/s (514 nWb/m)	> 54 dB / 60 dB
	38 cm/s (514 nWb/m)	> 55 dB / 61 dB
		linéaire / pondéré A IEC179
Version NAB:	9,5 cm/s (400 nWb/m)	> 52 dB / 57 dB
4 pistes	19 cm/s (514 nWb/m)	> 56 dB / 61 dB
	38 cm/s (514 nWb/m)	> 55 dB / 60 dB

Variante MOND:	Réglages des niveaux	NAB	IEC
	Entrée-Sortie-Ligne:		
	Entrée	1,23V/+4dBu	1,55V/+6dBu
	Moniteur	0,39V/-6dBu	0,775V/0dBu
	Sortie	1,23V/+4dBu	1,55V/+6dBu
	Lecture de la bande de mesure:	3,75 7,5 15ips	9,5 19 38cm
	Flux nWb/m	200 200 200	250 320 320
	Moniteur	0,39V/-6dBu	0,775V/0dBu
	Sortie	1,23V/+4dBu	1,55V/+6dBu
	Indication VU - mètre	0VU	+6VU
	Réglage du niveau d'enregistrement sur ligne:		
	Entrée - Bande - Sortie	1,23V/+4dBu	1,55V/+6dBu
	Indication 0VU sur ligne:		
	Entrée - Sortie	1,23V/+4dBu	0,775V/0dBu
	Réglage de la LED Peak sur entrée ligne avec:		
	LED +6 dB	2,45V/+10dBu	1,55V/+6dBu
	LED +9 dB	3,46V/+13dBu	2,18V/+9dBu
	LED +12dB	4,90V/+16dBu	3,1V/+12dBu

Modification réservées

6. DIAGRAMS AND LIST OF SUBASSEMBLIES

INHALT	Seite
<hr/>	
LOCATION OF ASSEMBLIES	
FRONT VIEW	6/1
BACK VIEW	6/2
LOCATION OF JUMPERS AND ADJUSTING ELEMENTS	6/3
VU-PEAK BOARD ADJUSTING ELEMENTS	6/4
<hr/>	
WIRING DIAGRAMS	
WIRING BLOCK DIAGRAM	6/5
WIRE HARNESS MONITOR	1.777.820.00 6/7
LINE POTMETER OUTPUT	1.777.825.00 6/8
CONNECTION UNIT	1.777.830.00 6/9
<hr/>	
TAPE DECK CONTROL DIAGRAMS	
SPOOLING SERVO BLOCK DIAGRAM	6/11
CPU BLOCK DIAGRAM	6/12
CAPSTAN SERVO DIAGRAM	6/13
MAINS TRANSFORMER	1.777.300.00 6/15
DISTRIBUTOR BOARD	1.777.320.00 6/17
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TAPE MOVE SENSOR PCB	1.020.316.00 6/25
TAPE SENSOR BOARD	1.050.312.00 6/27
TACHO BOARD	1.777.250.00 6/29
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PREAMPLIFIER BOARD	1.777.610.00 6/75
REPRODUCE EQUALIZER BOARD	1.777.620.00 6/77
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REPRO SPEED BOARD 19/38 IEC	1.777.632.00 6/81
REPRO SPEED BOARD 9.5/38 IEC	1.777.634.00 6/83
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REPRO SPEED BOARD 19/38 NAB	1.777.638.00 6/87
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OUTPUT AMPLIFIER BOARD	1.777.640.00 6/91
AUDIO SWITCH BOARD	1.777.462.00 6/93
AUDIO SWITCH BOARD	1.777.463.00 6/95
VU-PEAK BOARD	1.777.460.00 6/97



**ABBREVIATIONS**

A	assemblie
ANT	antenna
B	bulb
BA	battery, accumulator
BR'	optocoupler (bulb --> LDR)
C	capacitor
D	diode, DIAC
DL	LED light-emit. diode
DLQ	optocoupler (LED --> phototransistor)
DLR	optocoupler (LED --> LDR)
DLZ	LED-array, 7-segment-display
DP	photodiode
DZ	rectifier
E	electronic part
EF	headphones
F	fuse
FL	filter
H	head (sound-/erase-)
HC	hybrid circuit
HE	hall element
IC	integrated circuit
J	jack (female)
JS	jumper
K	relay, contactor
L	coil, inductance
LS	loudspeaker
M	motor
ME	meter
MIC	microphone
MP	mechanical part
P	plug (male)
PU	pick up
Q	transistor, FET, thyristor, TRIAC
QP	phototransistor
QPZ	phototransistor-array
R	resistor
RP	light depend. resistor
RT	temp. sensit. resistor
RZ	resistor array
S	switch
T	transformator
TL	delay line
TP	test point
W	wire, stranded wire
X	socket, holder
XB	lamp socket
XF	fuse holder
XIC	IC-socket
Y	quarz, piezoelement
Z	network, array

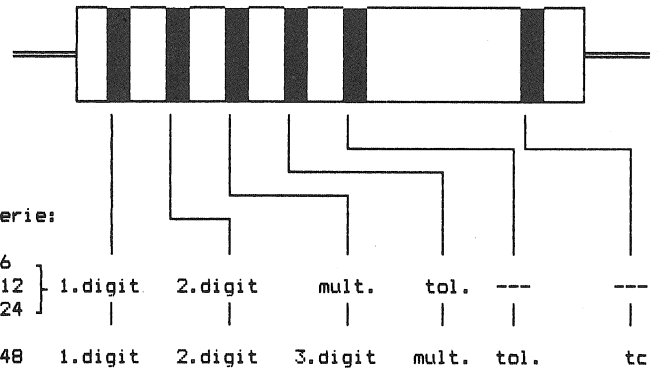
**POWERS OF TEN**

designation	abbrev.	value
Tera-	T	10 <sup>12</sup>
Giga-	G	10 <sup>9</sup>
Mega-	M	10 <sup>6</sup>
Kilo-	k	10 <sup>3</sup>
Milli-	m	10 <sup>-3</sup>
Mikro-	μ	10 <sup>-6</sup>
Nano-	n (mμ)	10 <sup>-9</sup>
Pico-	p (μμ)	10 <sup>-12</sup>
Femto-	f	10 <sup>-15</sup>

() = USA used designation

**CODE LETTERS AND COLORS**

**Resistors**



color	digit	multiplier	tolerance	tc
gold	-	0,01	5 %	-
silver	-	0,1	10 %	-
black	0	1	-	-
brown	1	10	1 %	100·10 <sup>-6</sup> /K
red	2	100	2 %	50·10 <sup>-6</sup> /K
orange	3	1 k	-	15·10 <sup>-6</sup> /K
yellow	4	10 k	-	25·10 <sup>-6</sup> /K
green	5	100 k	0,5 %	-
blue	6	1 M	0,25 %	-
violet	7	10 M	0,1 %	-
grey	8	-	-	-
white	9	-	-	-

No tc-coding = 50 · 10<sup>-6</sup>/K

**CAPACITORS**

The tolerance category is sometimes specified by a letter after the rated capacitance:

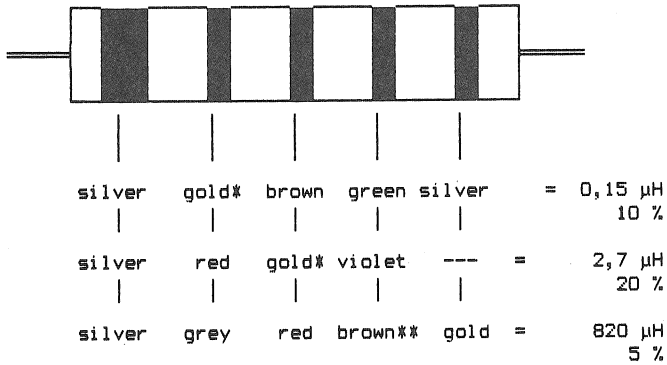
D	=	0,5 %
F	=	1 %
G	=	2 %
J	=	5 %
K	=	10 %
M	=	20 %

**MOLDED RF COILS**

A wide silver-colored ring and 4 thin, differently colored rings identify molded RF coils. The wide silver ring indicates the start of the counting direction. The second, third, and fourth ring indicate the inductance in micro Henry ( $\mu\text{H}$ ), where two of the three rings represent the numeric value, the third one either a multiplier or the numeric value, the third one either a multiplier or the decimal point. In the latter case it has a golden color. The fifth ring identifies the tolerance in percent ( $\pm$ ).

color	digit	multiplier	tolerance
gold	,	-	5 %
silver	-	-	10 %
black	0	1	-
brown	1	10	1 %
red	2	100	2 %
orange	3	$10^3$	-
yellow	4	$10^4$	-
green	5	$10^5$	0,5 %
blue	6	$10^6$	-
violet	7	$10^7$	-
grey	8	$10^8$	-
white	9	$10^9$	-
without	-	-	20 %

examples:



\* Decimal point  
\*\* Multiplier

**INDUCTORS, transformers on ferrite cores**

Inductors and transformers on ferrite cores are marked with three colored dots (for color codes, refer to the table in the section "Resistors", the two left-hand columns). These dots represent the last three digits of the WILLY STUDER standard number, the largest of the standard number (1.022.- --> are always the same.

E.g.: Driver Transformer, 150 khz.  
Standard number: 1.022.211  
Color code: red (large dot), brown, brown

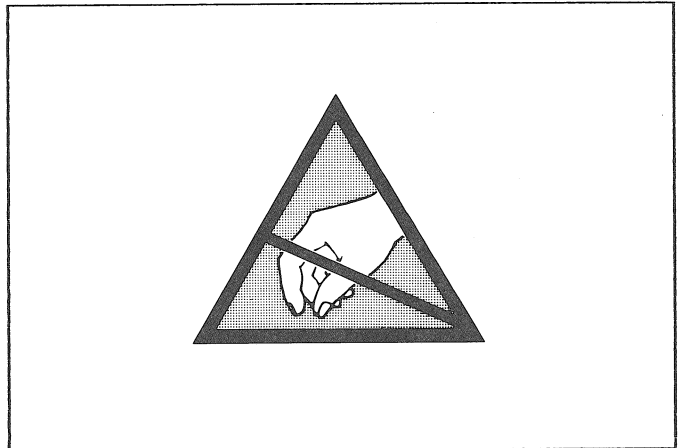
Terminal 1 of the winding form is usually identified by a lobe; if not the winding form features a yellow dot near terminal No. 1.

**NOTE**

Some of the order numbers contained in the following lists are used for production purposes only. The reference numbers may deviate for service purposes.

Electrical components such as resistors, capacitors, transistors, IC's etc. having no special unit-specific number and not identified respectively should be purchased locally.

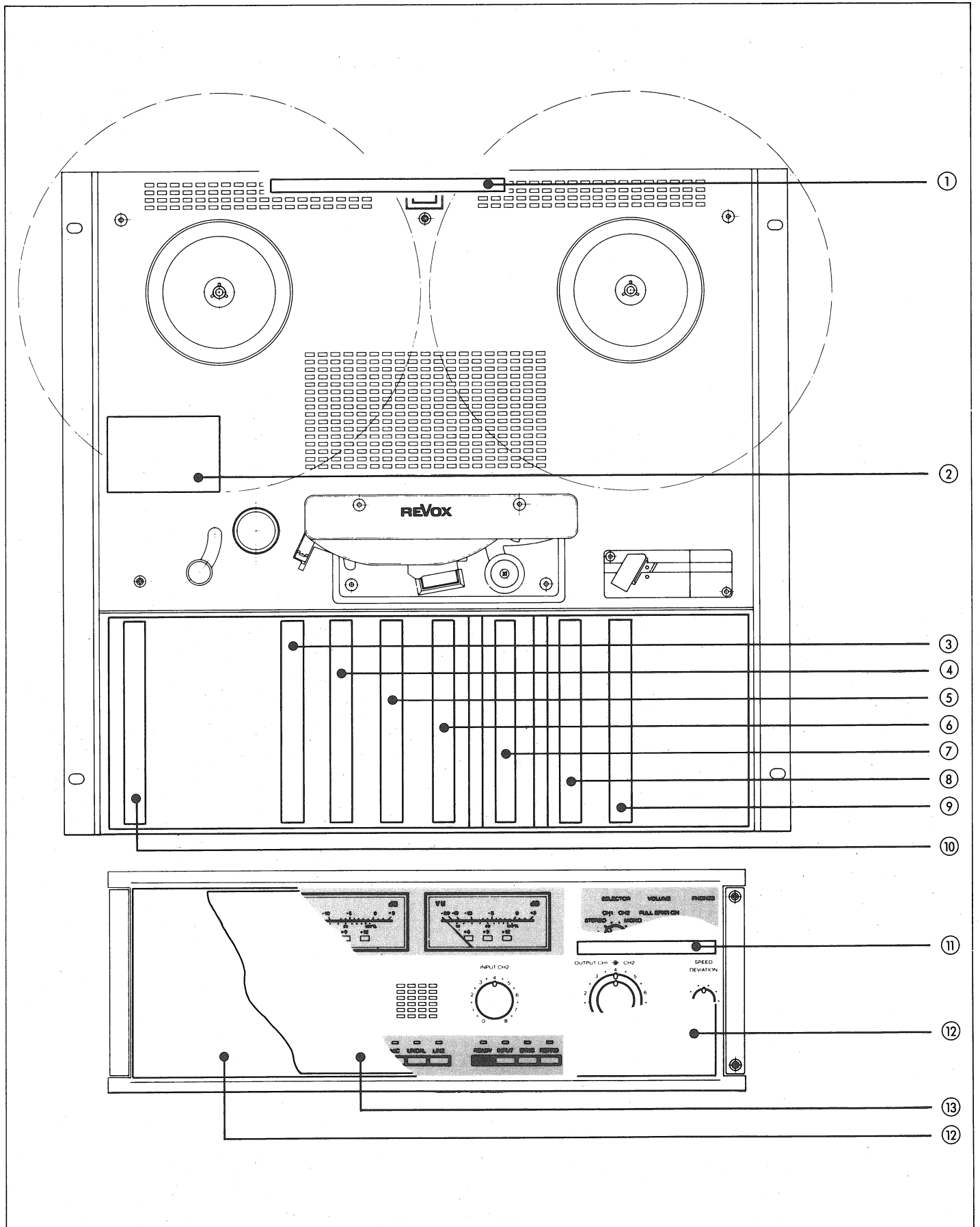
**ELECTROSTATICALLY SENSITIVE SEMICONDUCTOR DEVICES**



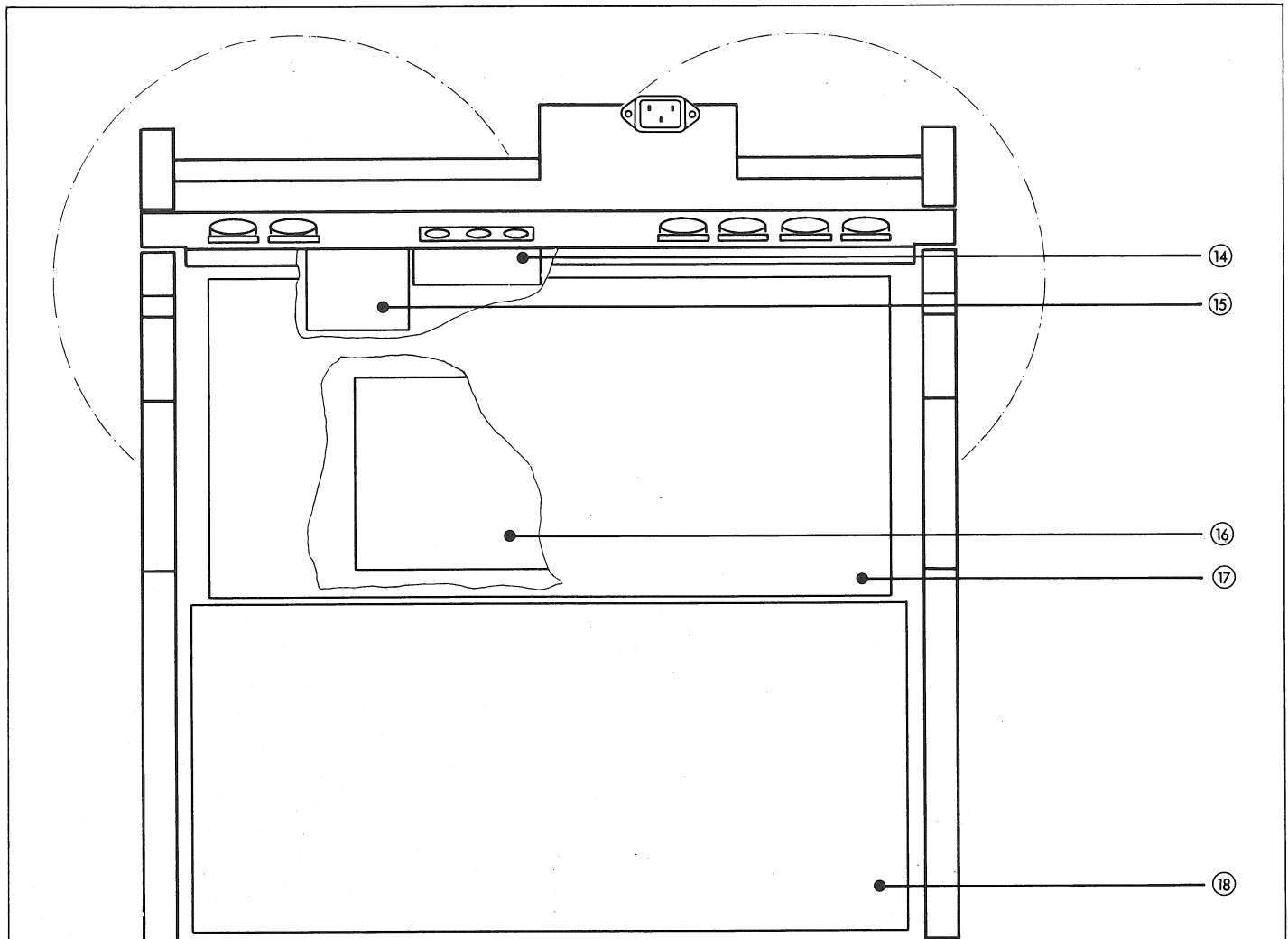
MOS (Metal oxide semiconductor) devices are very sensitive to electrostatic charges. The following precautions should, therefore, be observed:

1. Electrostatically sensitive semiconductor devices and assemblies are stored and shipped in protective packing is identified with the label illustrated above.
2. Strictly avoid contact of the connector pins with plastic bags and foils or other statically chargeable materials.
3. Ensure that your wrist is grounded before touching the connector pins.
4. Use a grounded, conductive plastic pad as a work surface.
5. Never unplug or insert printed circuit boards while the equipment is under power! The equipment must have been switched off for at least 5 seconds before any PCBs are pulled out or inserted!

FRONT VIEW

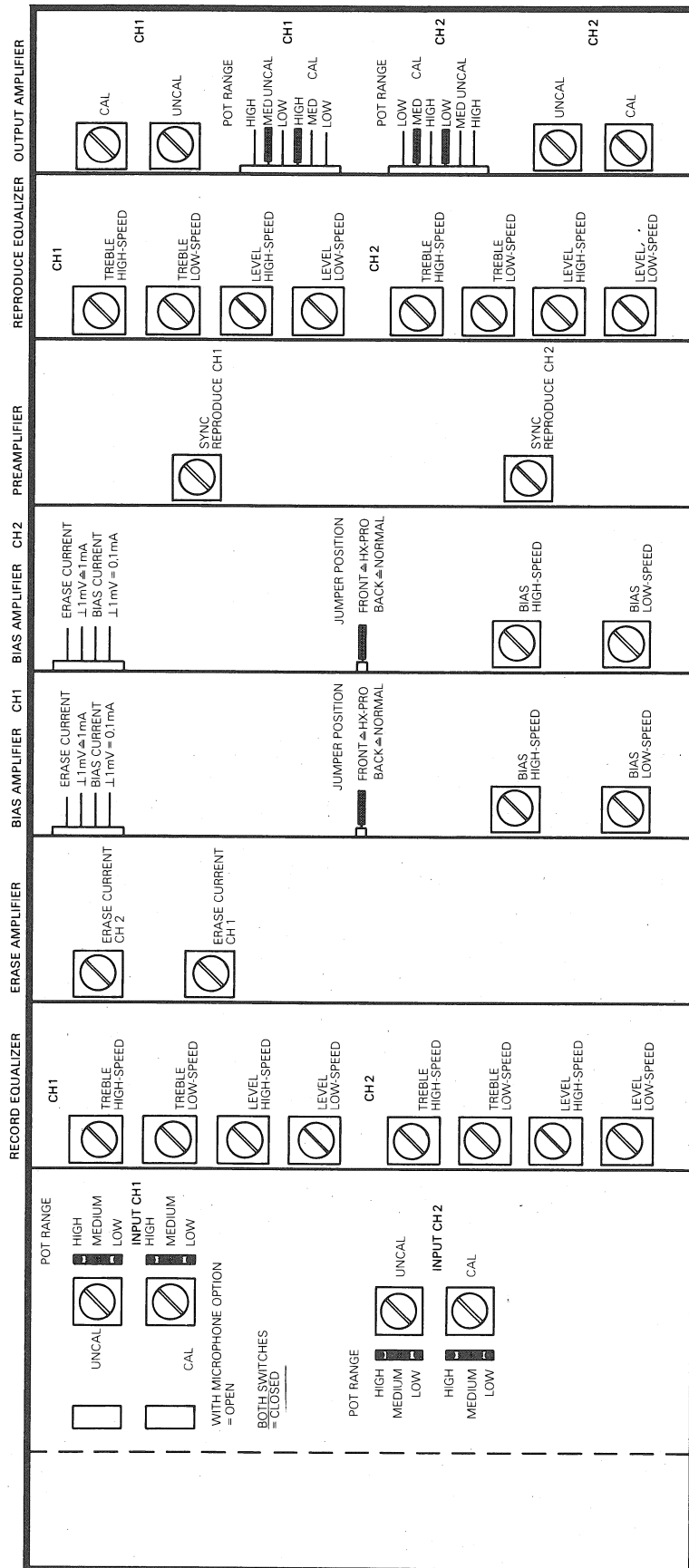


## BACK VIEW



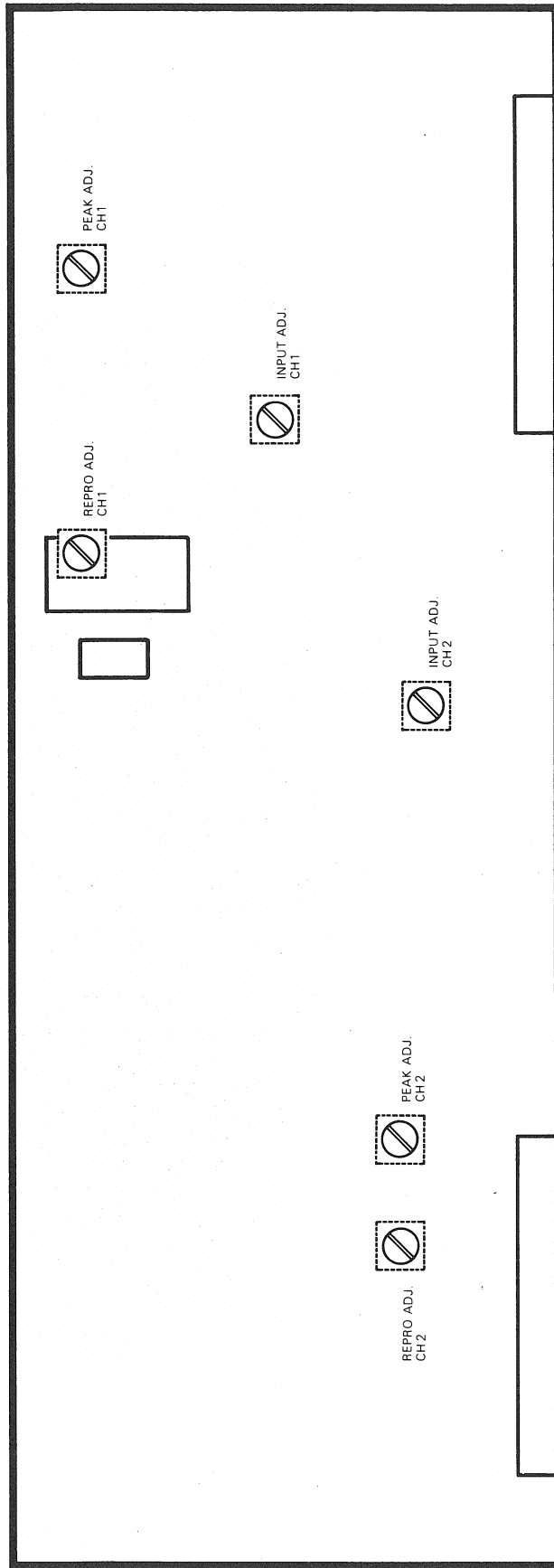
[1]	DISTRIBUTOR BOARD	1.777.320.00
[2]	TENSION ARM BOARD	1.777.211.00
[3]	RECORD EQUALIZER BOARD	1.777.540.00
	- RECORD SPEED BOARD	1.777.550.00 - .559.00
[4]	ERASE AMPLIFIER BOARD	1.777.560.00
[5]	BIAS AMPLIFIER BOARD	1.777.570.00
[6]	BIAS AMPLIFIER BOARD	1.777.570.00
[7]	PREAMPLIFIER BOARD	1.777.610.00
[8]	REPRODUCE EQUALIZER BOARD	1.777.620.00
	- REPRO SPEED BOARD	1.777.630.00 - .639.00
[9]	OUTPUT AMPLIFIER BOARD	1.777.640.00
[10]	MIC LINE SWITCH BOARD (Option)	1.777.520.00
[11]	SWITCH BOARD	1.777.462.00
[12]	KEYBOARD	1.777.450.00
[13]	VU-PEAK BOARD	1.777.460.00
[14]	CONNECTION BOARD	1.777.441.00
[15]	TACHO BOARD	1.777.250.00
[16]	CAPSTAN SERVO BOARD	1.777.410.20
	- FAST START BOARD	1.777.414.00
[17]	CONTROL BOARD	1.777.400.22
[18]	AUDIO BASIS BOARD	1.777.500.81

LOCATION OF JUMPERS AND ADJUSTING ELEMENTS



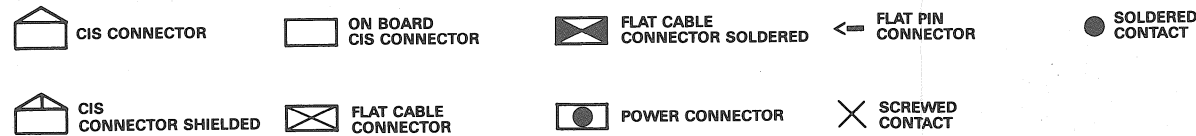
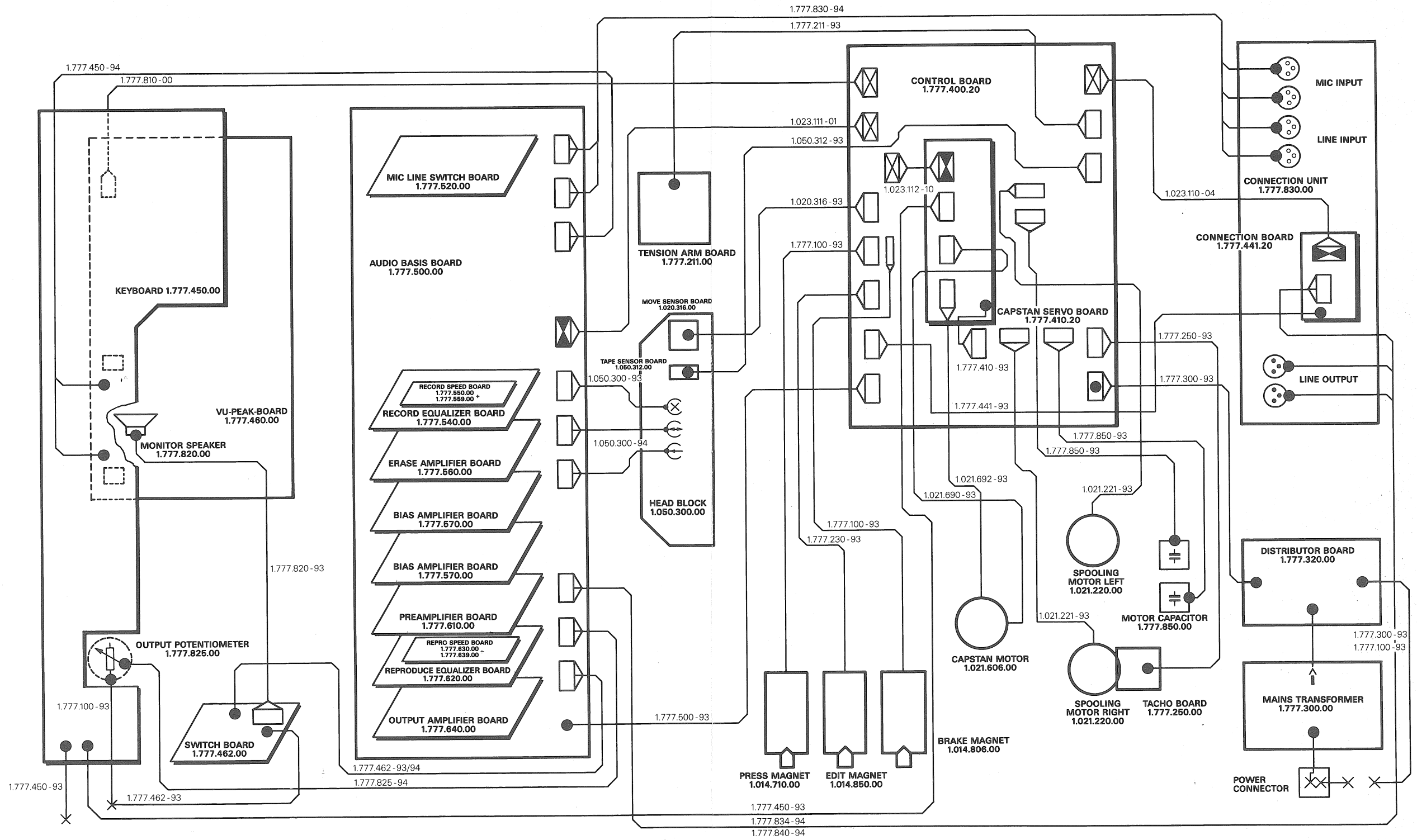
FRONT VIEW 1777.500.00  
(WITH UNITS)

VU-PEAK BOARD ADJUSTING ELEMENTS

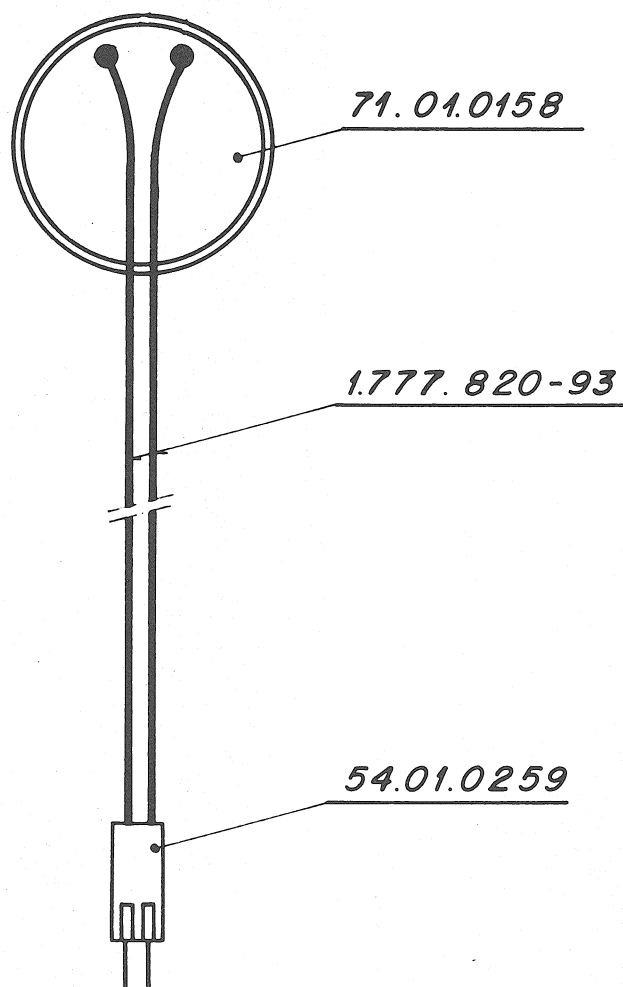


FRONT PANEL, BACK SIDE

WIRING BLOCK DIAGRAM



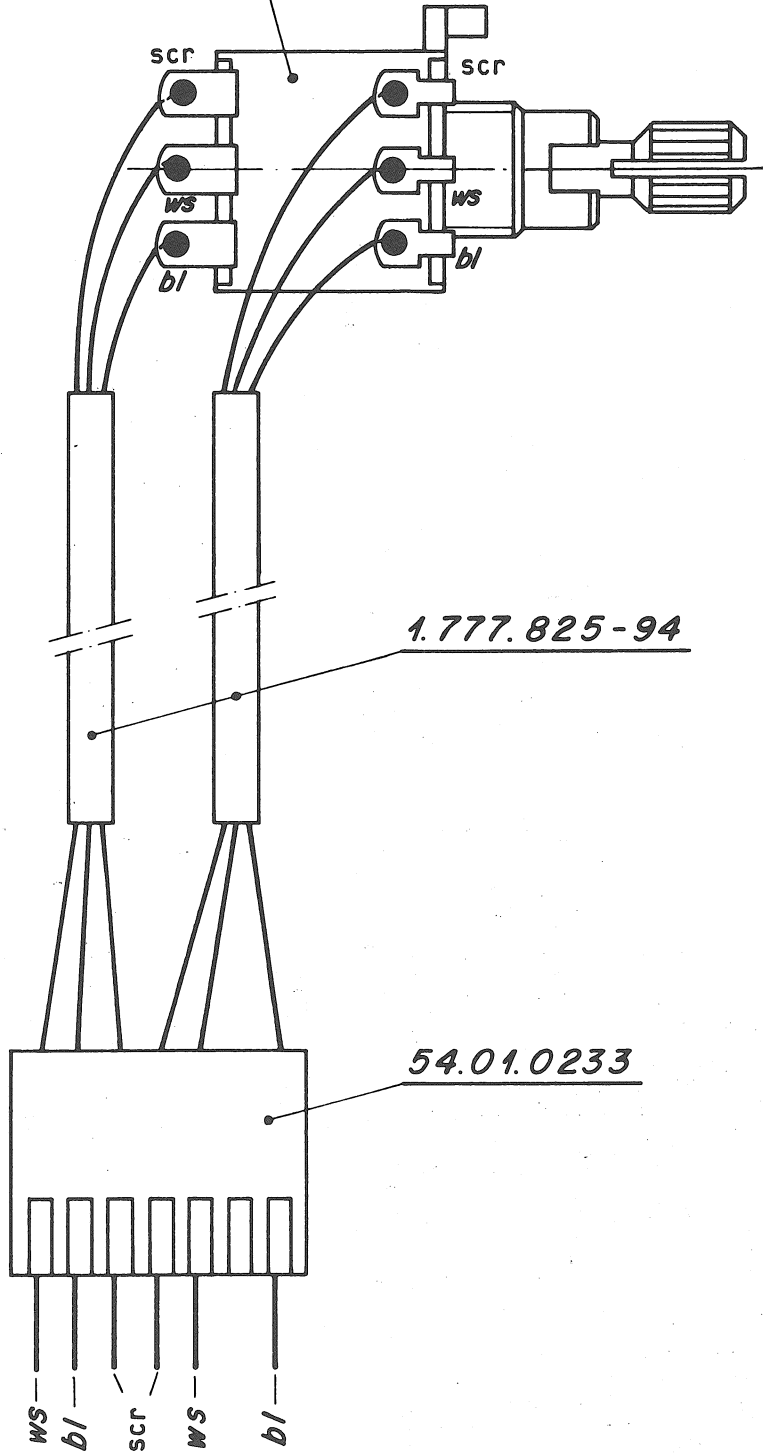
WIRE HARNESS MONITOR 1.777.820.00





LINE POTMETER OUTPUT 1.777.825.00

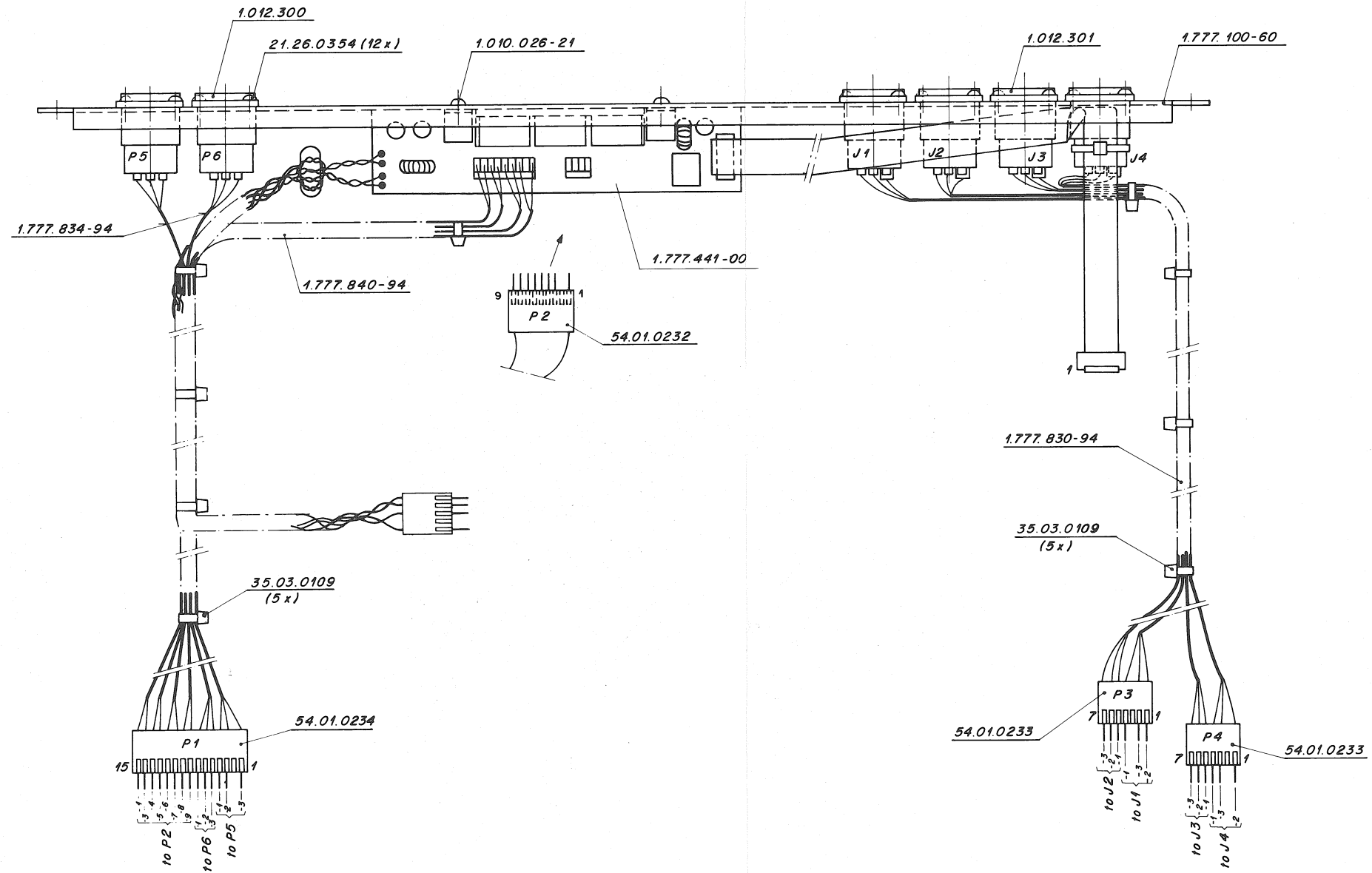
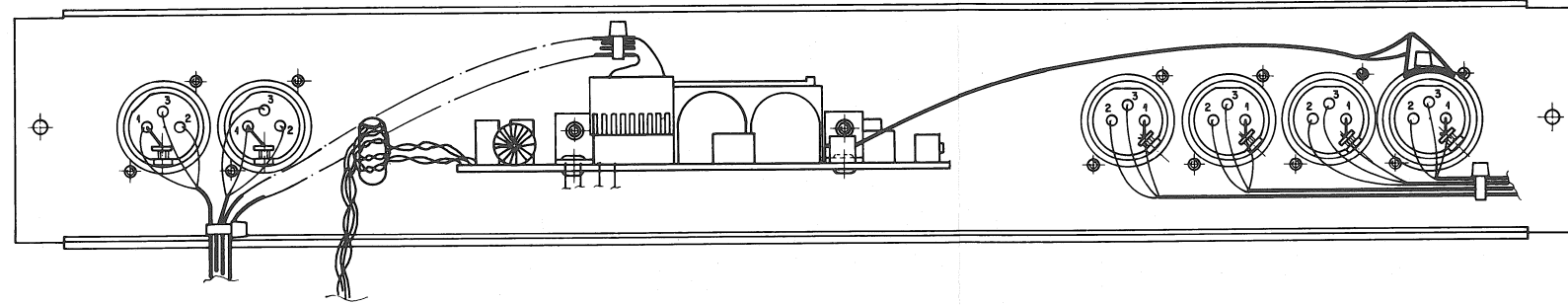
1.777.840-01



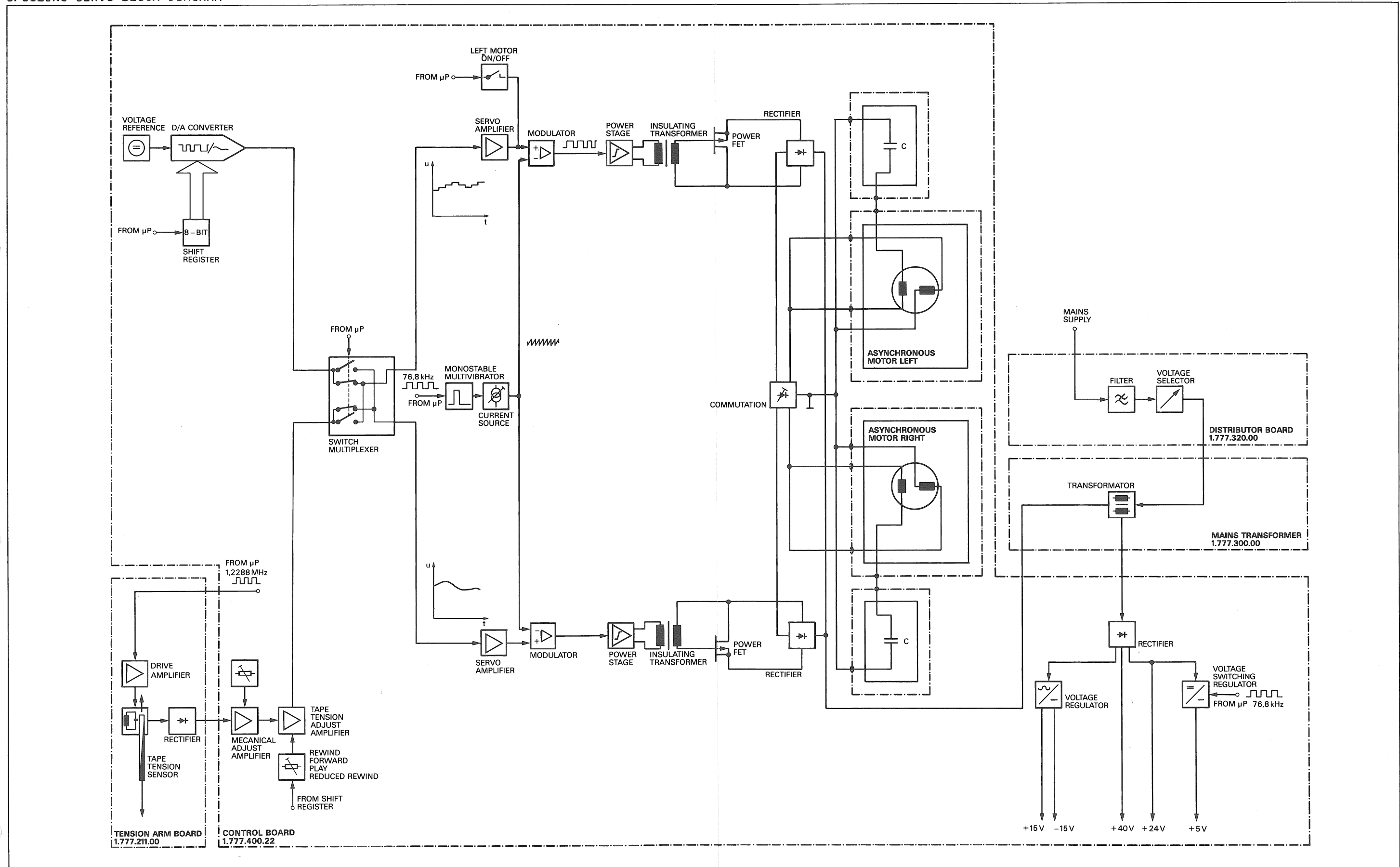
1.777.825-94

54.01.0233

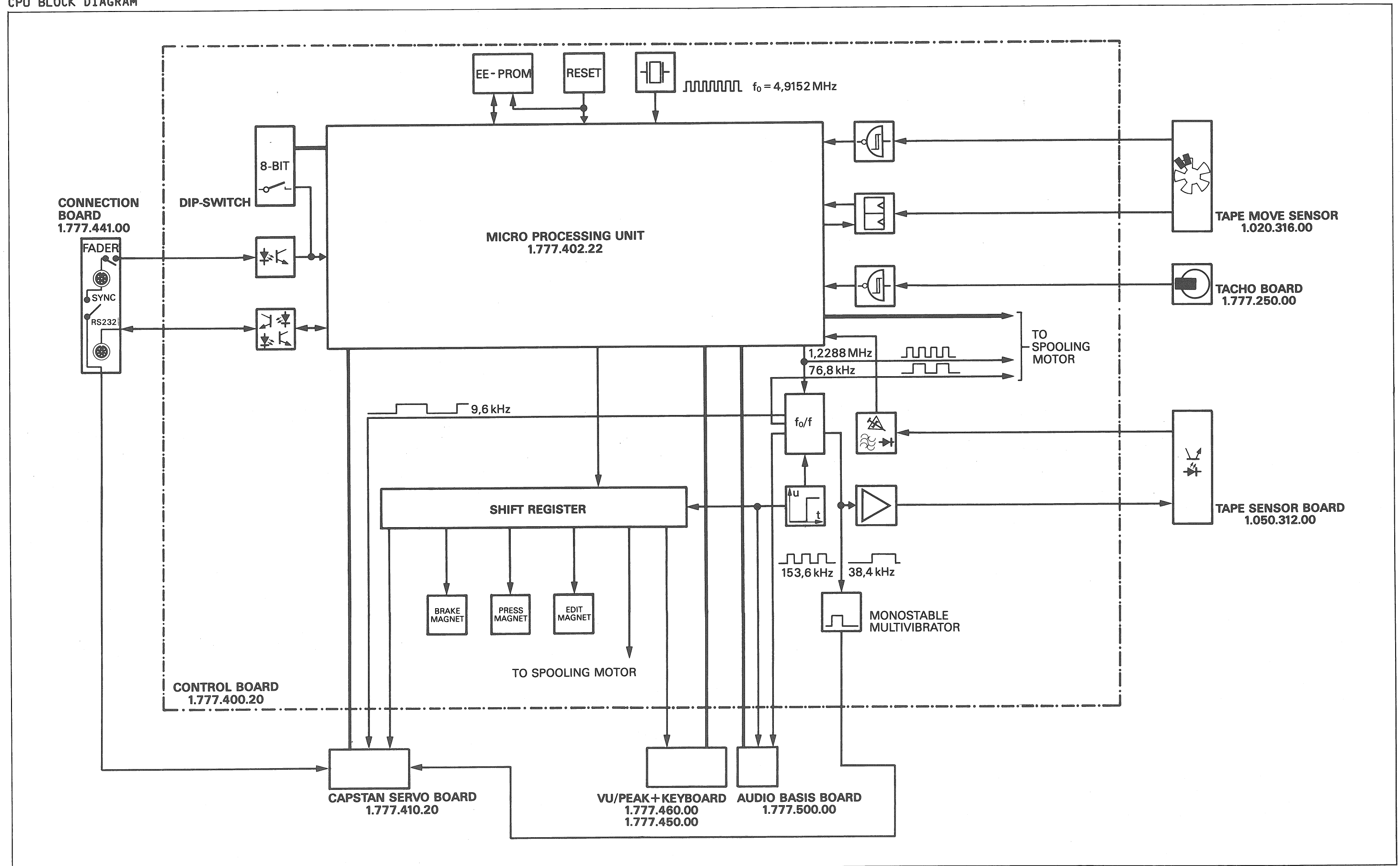
CONNECTION UNIT 1.777.830.00



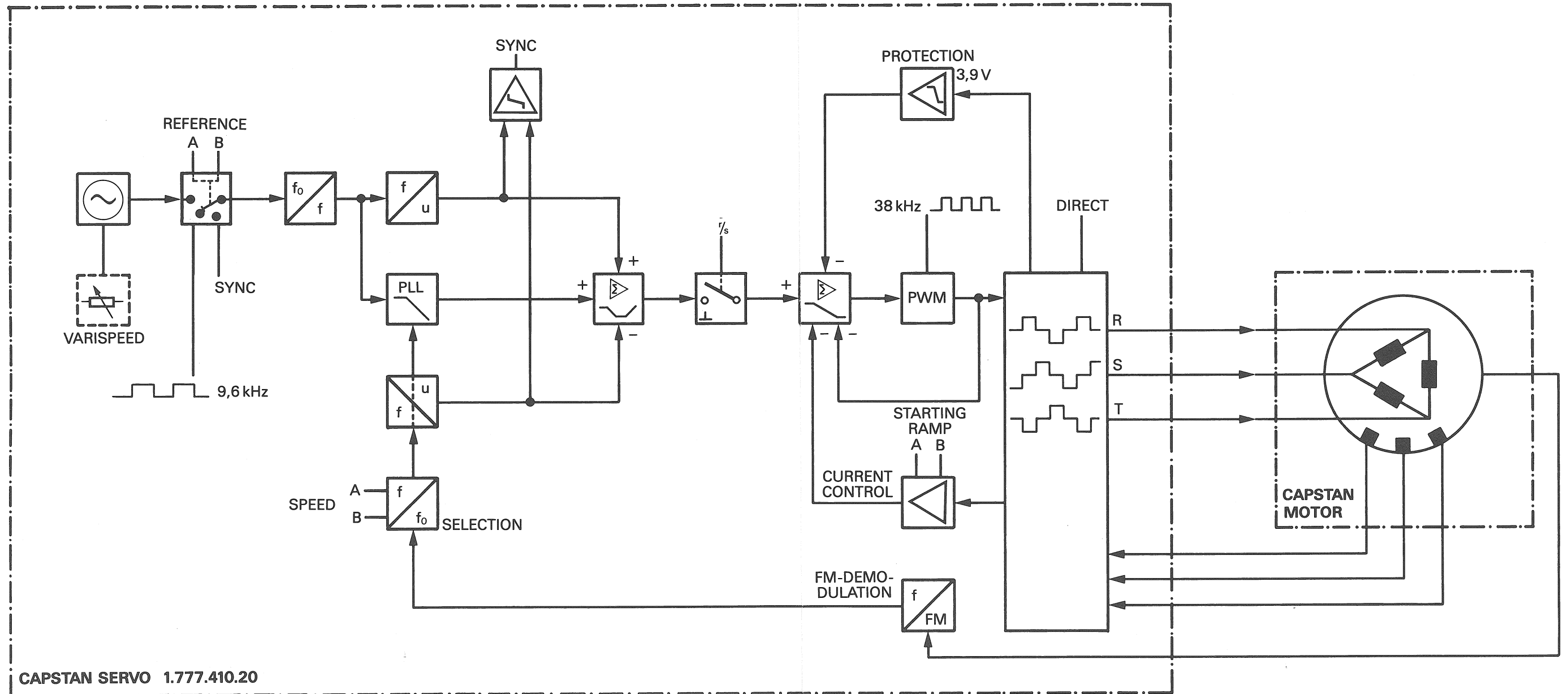
SPOOLING SERVO BLOCK DIAGRAM



CPU BLOCK DIAGRAM

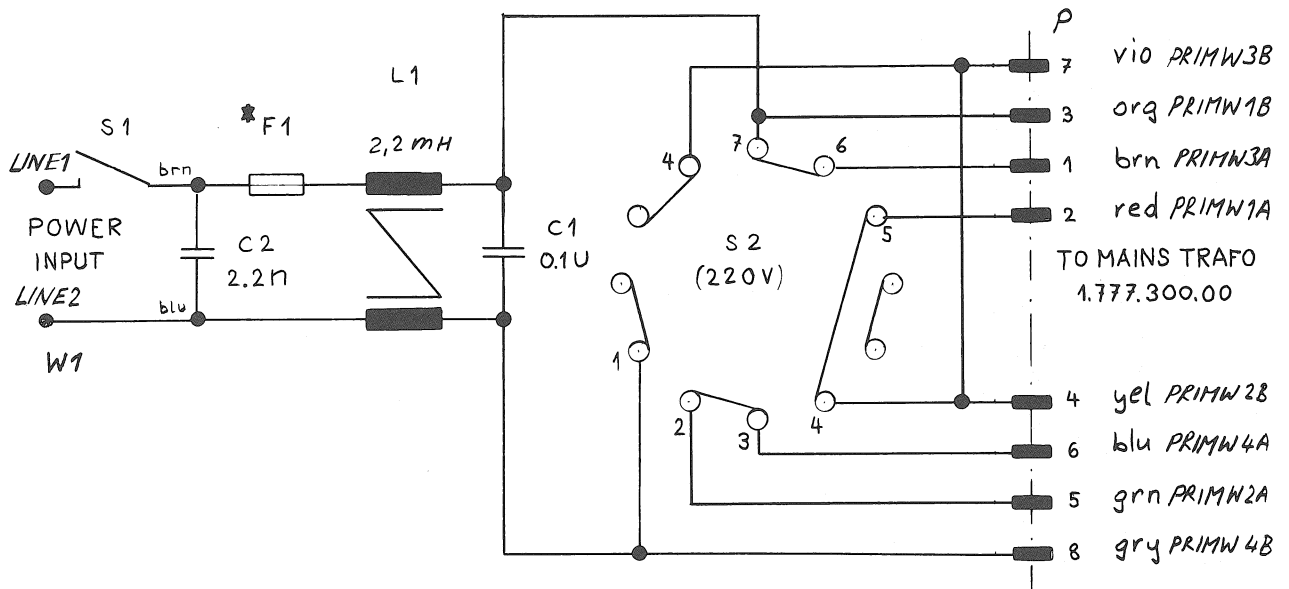


CAPSTAN SERVO DIAGRAM





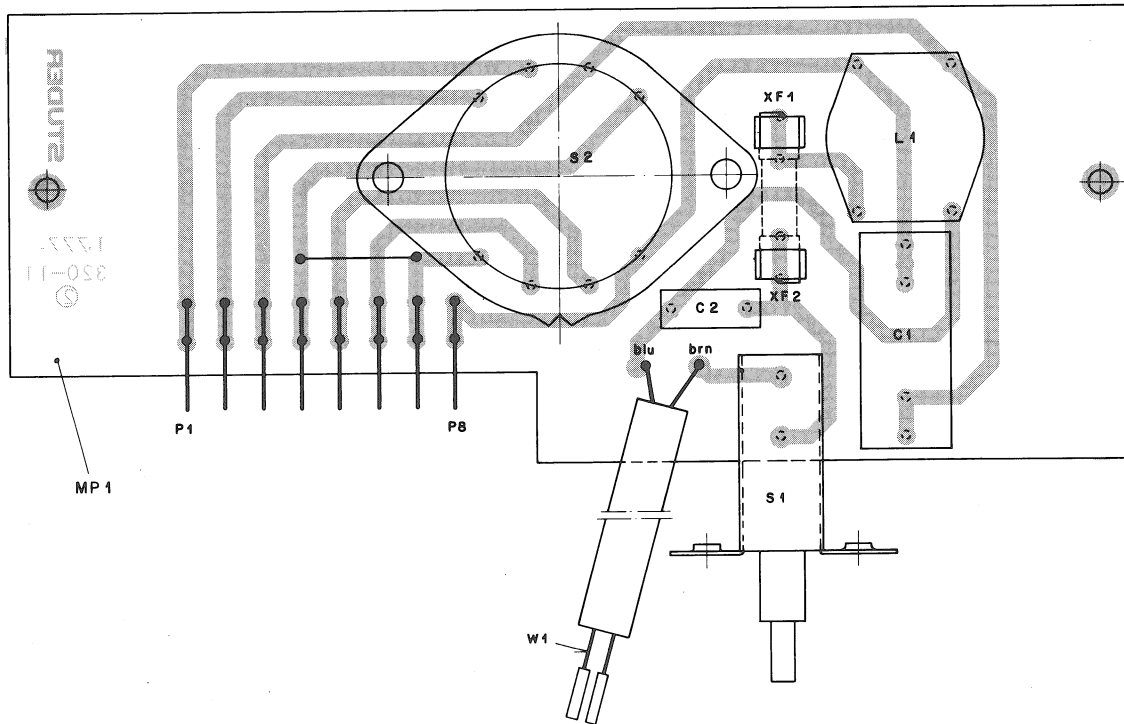
DISTRIBUTOR BOARD 1.777.320.00



\*Power fuse (F1)  
 100...140V: T 2,5 A / 250V (slow)  
 200...240V: T 1,25A / 250V (slow)

08.1.87	...	...	...	...
C270			PAGE 1 OF 1	
STUDER	DISTRIBUTOR BOARD		SC	1.777.320.00

DISTRIBUTOR BOARD 1.777.320.00



IND.	PDS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C..0001	59.14.0104	+1 U	20% 250V IEC65	Ri
	C..0002	59.14.0222	2200 P	20% 250V IEC65	Ri
	L..0001	62.03.0100	2±2mH	2 A TOROIDAL CHOKE	Sie,Tokin
(00)	MP..0001	1.777.320.11		DISTRIBUTOR PCB	St
(01)	MP..0001	1.777.320.11		DISTRIBUTOR PCB -(1)	St
(02)	MP..0001	1.777.320.12		DISTRIBUTOR PCB -(1)	St
	P..0001	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0002	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0003	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0004	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0005	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0006	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0007	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	P..0008	54.02.0328	2.8±0.8	FLAT+ANGLE	St
	S..0001	55.03.0286	- 240V	MAINS INTERRUPTOR PRINTCONNEC.	Alps
	S..0002	53.03.0131	- 240V	VOLTAGE SELECTOR PRINT	Teckentrup
	XF..0001	53.03.0142	5 ± 20	LOCKING	St
	XF..0002	53.03.0142	5 ± 20	LOCKING	St
	W..0001	1.777.320.93		WL-DISTRIBUTOR BOARD	St

(01) 14.01.87 Value adjust  
 (02) 18.05.88 PCB revise

MANUFACTURER: Ri=Rifa,Alps=AlpsECo,Teckentrup=Teckentrup KG,St=Studer  
 Sie=Siemens

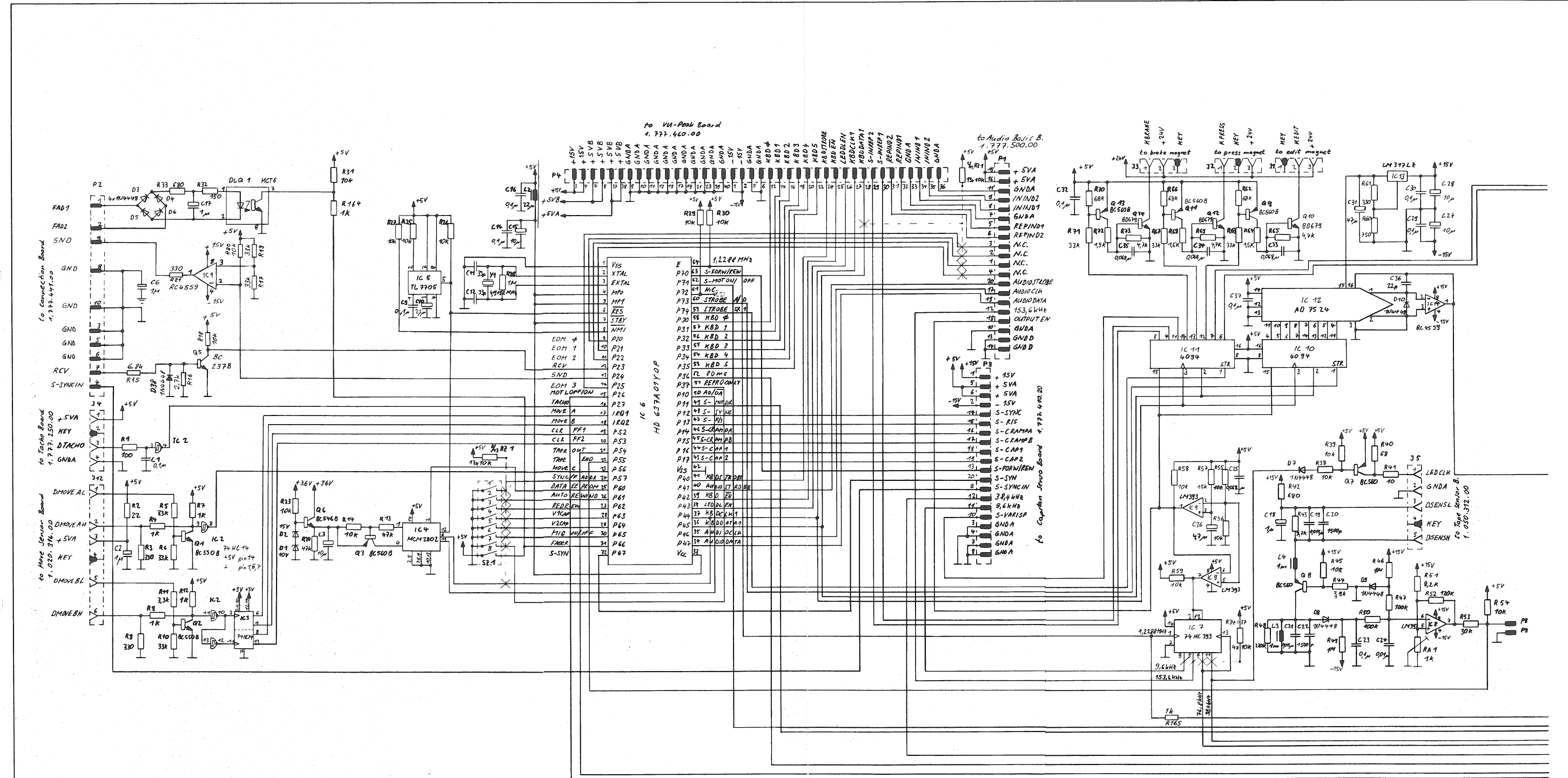
ORIG 86/09/19 (01) 87/01/14 (02) 88/05/18

S T U D E R (02) 88/05/18 DISTRIBUTOR BOARD

PL 1.777.320.00 PAGE 1



CONTROL BOARD 1.777.400.22



022.12.87 J.M.E.				
STUDER	C270	CONTROL BOARD	"ESE" SC	1.777.400.22
				PAGE 3 OF 6







CONTROL BOARD 1.777.400.22

Table with 10 columns: IND., POS.-NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., and 5 additional columns for parts 1-5. It lists various electronic components like resistors, capacitors, and integrated circuits.

S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 1 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 4 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 7 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 10

Table with 10 columns: IND., POS.-NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., and 5 additional columns for parts 1-5. It lists various electronic components like resistors, capacitors, and integrated circuits.

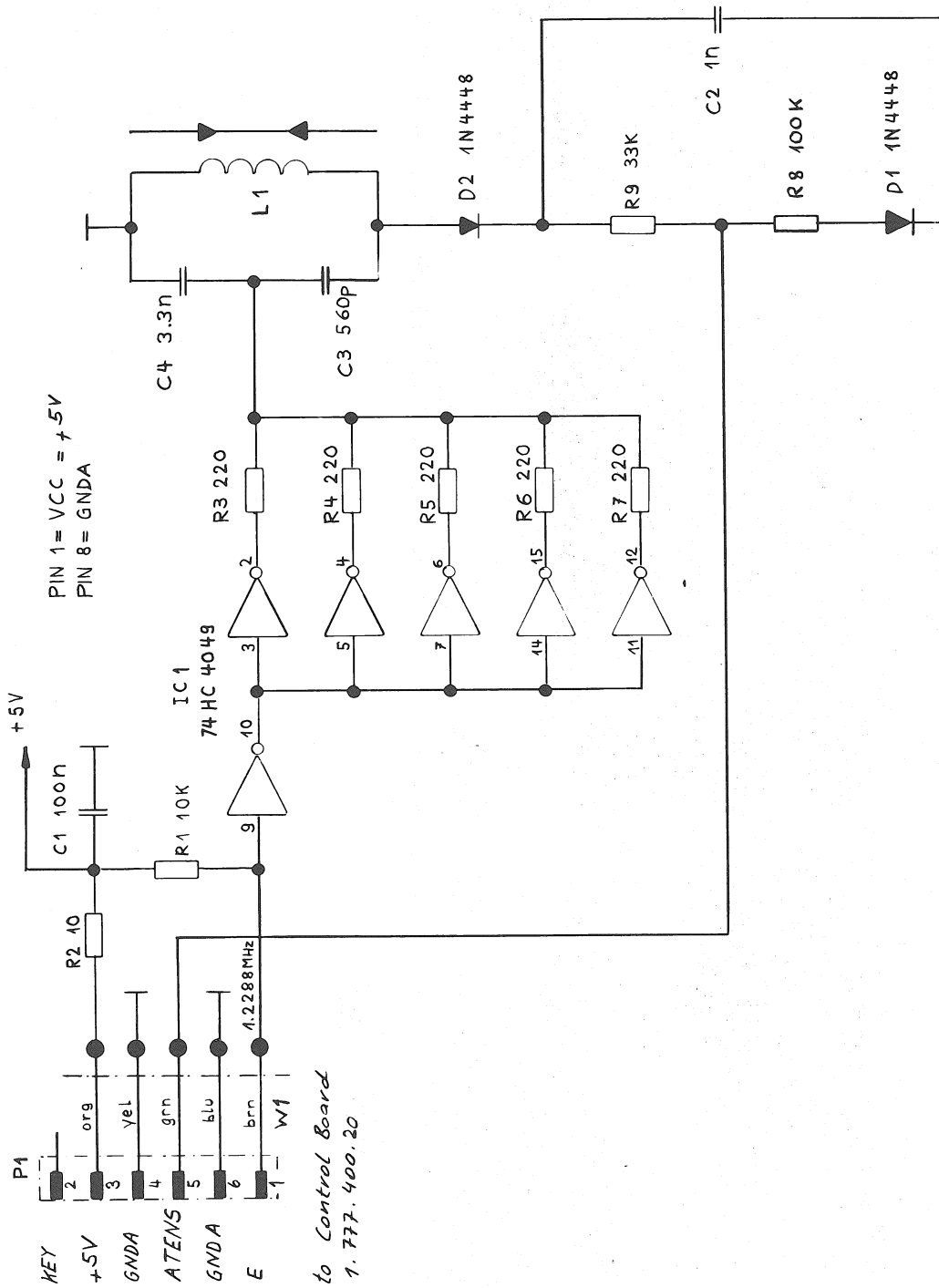
S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 2 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 5 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 8 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 11

Table with 10 columns: IND., POS.-NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., and 5 additional columns for parts 1-5. It lists various electronic components like resistors, capacitors, and integrated circuits.

S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 3 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 6 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 9 S T U D E R (00) 87/12/22 CONTROL BOARD A 1.777.400.22 PAGE 12

MANUFACTURER: AMP=AMP Incorporated; ADI=Analog Devices Inc.; Bg=Berg; Bys=Burdyn; De=DeFra; Fc=Fairchild; Gi=General Instruments; IR=International Rectifier; ITT=International Telephone and Telegraph; Mot=Motorola; MPS=Micro Processor Systems; St=Studer; NEC=Nippon Electric Corp.; NS=National Semiconductors; Ph=Philips; SAG=Quar 2 AG; Ra=Raytheon; SG=Siemens; TI=Texas Instruments; Y=Yamachi.

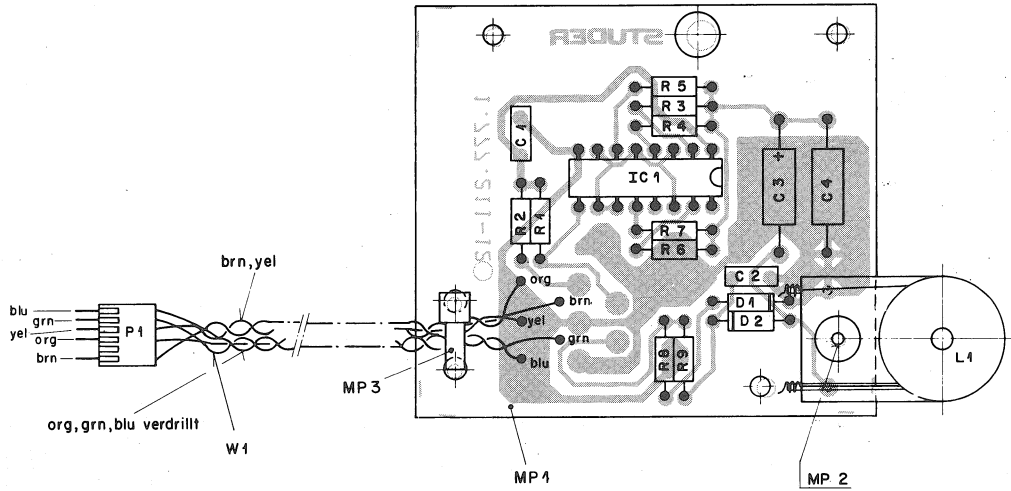
TENSION ARM BOARD 1.777.211.00



① 8.1.87	① 12.8.87 J. Ek.	○ ..	○ ..	○ ..
C270			PAGE 1 OF 1	
STUDER	TENSION ARM BOARD	"ESE"	SC	1.777.211.00



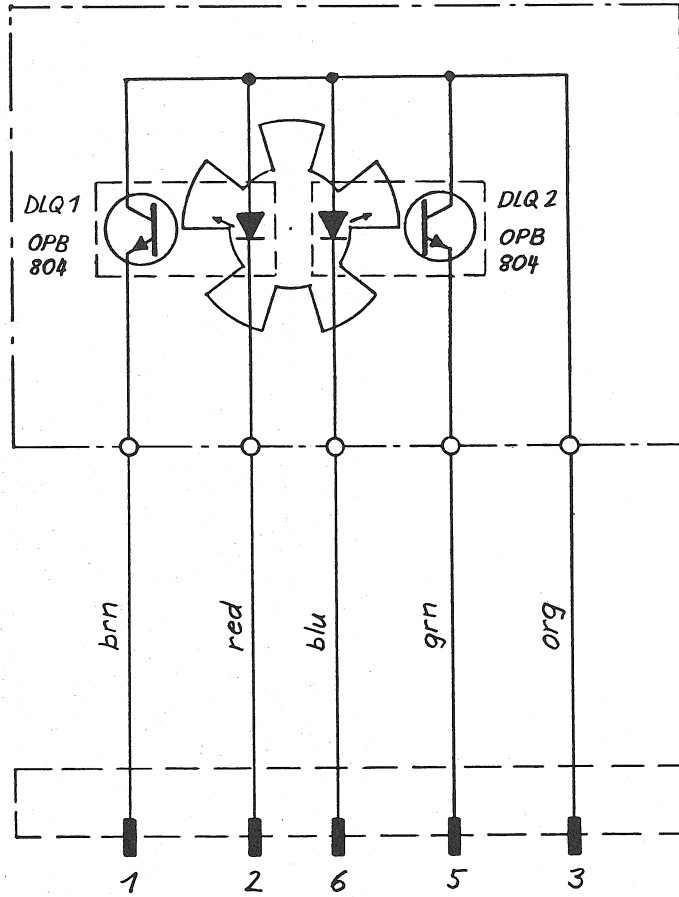
TENSION ARM BOARD 1.777.211.00



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
		C..0001	59.06.0104	.1 U	10%, 63V, PETP
		C..0002	59.06.0102	1000 P	10%, 63V, PETP
(00)		C..0003	59.12.7471	470 P	1%, 63V, PS
(01)		C..0003	59.12.7561	560 P	1%, 63V, PS
		C..0004	59.12.7332	3300 P	1%, 63V, PS
		D..0001	50.04.0125	1N 4448	SI
		D..0002	50.04.0125	1N 4448	SI
		IC.0001	50.17.4049	MC 74MC 4049N	TI, Mot, NS
		L..0001	1.777.212.00	COIL	St
(00)		MP.0001	1.777.211.11	TENSION ARM PCB	St
(01)		MP.0001	1.777.211.11	TENSION ARM PCB - (1)	St
(02)		MP.0001	1.777.211.12	TENSION ARM PCB	St
		MP.0002	28.21.2410	TUBULAR RIVET, DIN	St
		MP.0003	35.03.0109	CLAMPING BELT	Burndy, Panduit
		P..0001	54.01.0230	6 PDL	AMP
		R..0001	57.11.4103	10 K	2%, 0207, MF
		R..0002	57.11.4100	10	2%, 0207, MF
		R..0003	57.11.4221	220	2%, 0207, MF
		R..0004	57.11.4221	220	2%, 0207, MF
		R..0005	57.11.4221	220	2%, 0207, MF
		R..0006	57.11.4221	220	2%, 0207, MF
		R..0007	57.11.4221	220	2%, 0207, MF
		R..0008	57.11.4104	100 K	2%, 0207, MF
		R..0009	57.11.4333	33 K	2%, 0207, MF
		W..0001	1.777.211.93	WL-TENSION ARM BOARD	St

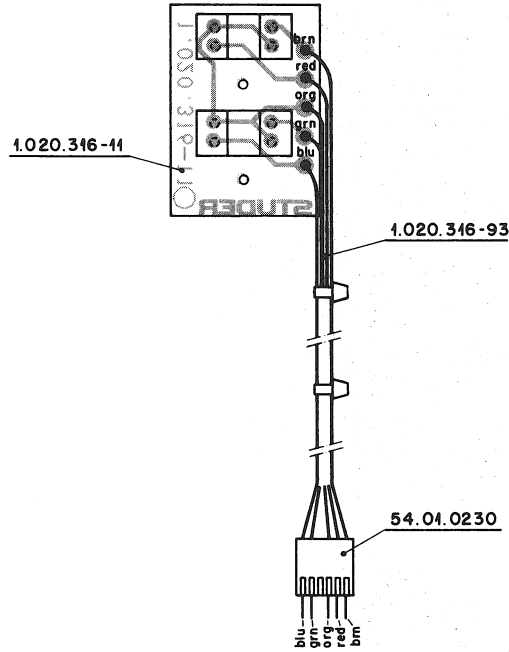
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
				(01) 12.08.87 Value adjust	
				(02) 15.11.87 PCB Revise	
				MANUFACTURER: Mot=Motorola, NS=National Semiconductors, Ph=Philips	
				ST=Studer, TI=Texas Instruments, AMP=AMP Incorporated	
				ITT=Intermetall, Ses=Sescosem	

TAPE MOVE SENSOR PCB 1.020.316.00



© 10.7.85 Rec	○ ..	○ ..	○ ..	○ ..
	PR 99 MK II			PAGE 1 OF 1
STUDER	TAPE MOVE SENSOR PCB		1.020.316-00	

TAPE MOVE SENSOR PCB 1.020.316.00



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	DLQ...1	50.04.2128	OPB 804	Slotted Optical Switch	Op
	DLQ...2	50.04.2128	OPB 804	Slotted Optical Switch	Op

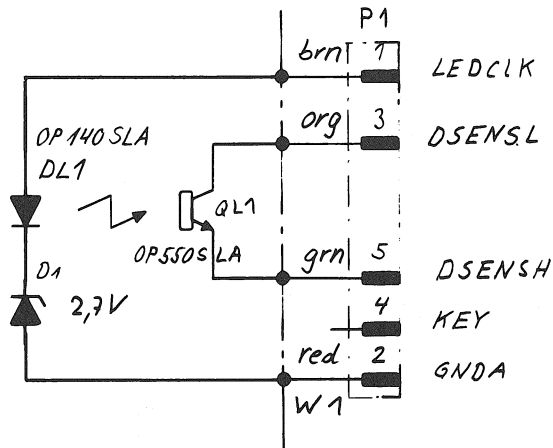
MANUFACTURER: Op = Optron

ORIG 85/07/10

STUDER (00) 85/07/10 Rec TAPE MOVE SENSOR PCB 1.020.316.00 PAGE 1



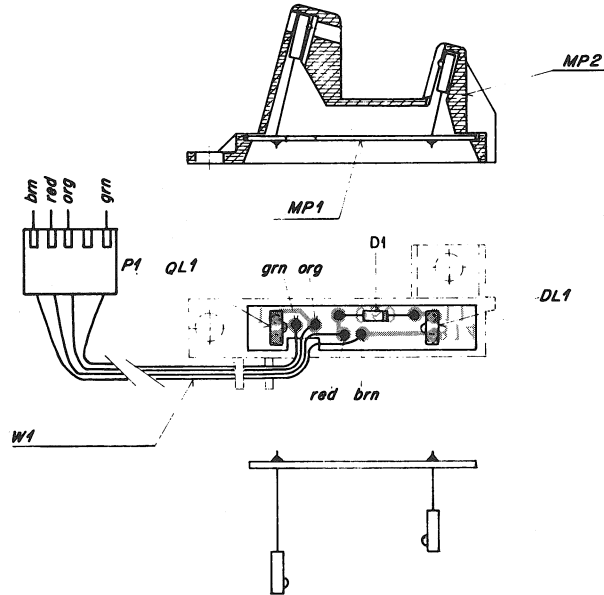
TAPE SENSOR BOARD 1.050.312.00



to Control Board  
1.777.400.20

© 3.2.87 J.45	○ ..	○ ..	○ ..	○ ..
	C270			PAGE 1 OF 1
STUDER	TAPE SENSOR BOARD	SC	1.050.312.00	

TAPE SENSOR BOARD 1.050.312.00



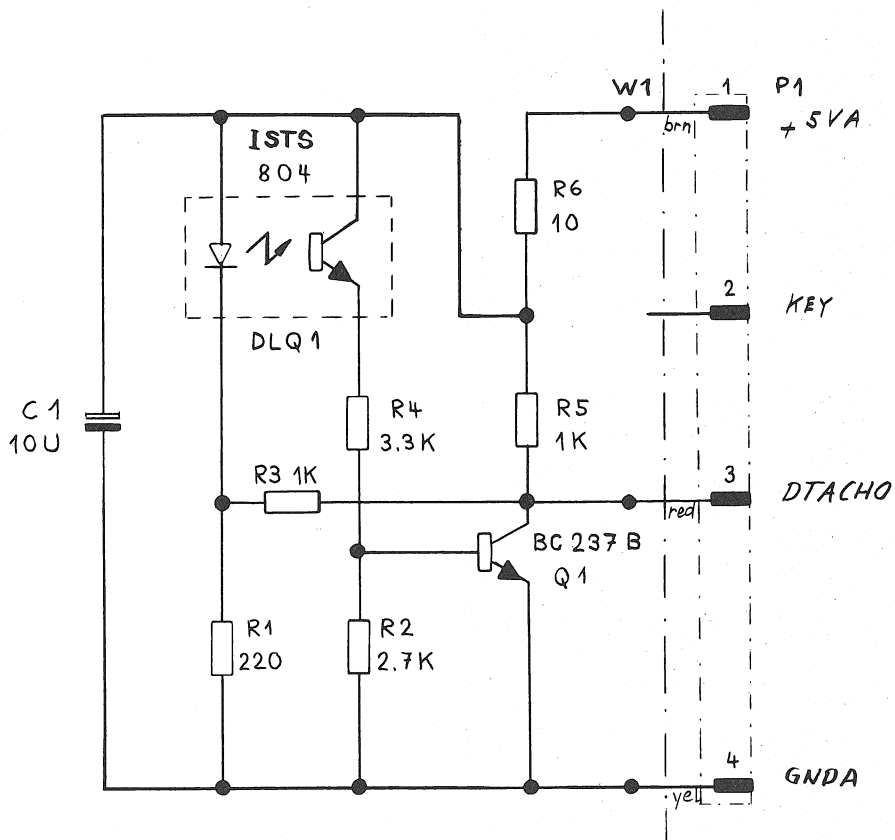
IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	D..0001	50.04.1106	Z=7 V	Z=5 Z=4W=Z	Ph, Mot, IIT
	DL.0001	50.04.2126		OP 140 SLA	OP
	MP.0001	1.050.314.11		TAPE SENSOR PCB	St
	MP.0002	1.050.312.01		CASE	St
	P..0001	54.01.0264	SPOL.	CASING	AMP
	QL.0001	50.04.2127		OP 550 SLA	OP
	W..0001	1.050.312.93		ML-TAPE SENSOR	St

MANUFACTURER: Mot=Motorola, OP=Optron, IIT=Intermetall, Ph=Philips  
St=Studer.

ORIG 86/09/19

S T U D E R (00) 86/09/19 TAPE SENSOR BOARD 1.050.312.00 PAGE 1

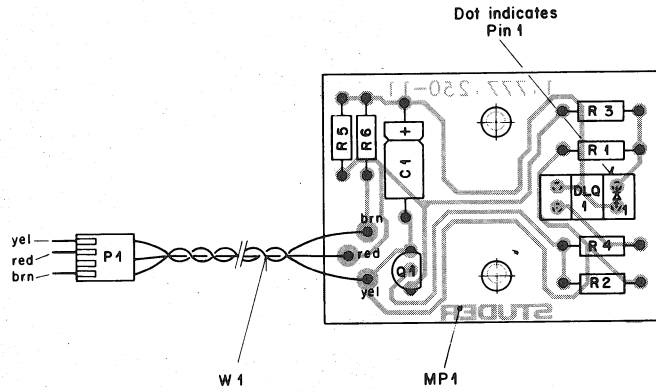
TACHO BOARD 1.777.250.00



*to Control Board  
1.777.400-20*

8.1.87	...	...	...	...
C270				PAGE 1 OF 1
STUDER	TACHO BOARD		SC	1.777.250.00

TACHO BOARD 1.777.250.00



IND.	PDS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C..0001	59.22.6100	10 U	-20%, 40V, EL	
(01)	C..0001	59.25.4100	10 U	-20%, 25V, EL	
(00)	DLQ0001	50.04.2128		ISTS 804	Op+GI+Isocom
(01)	DLQ0001	50.04.3001		ISTS 804	Op+GI+Isocom
	MP.0001	1.777.250.11		TACHO-PCB	St
	P..0001	54.01.0280	4 POL.	CASING CIS	AMP
	Q..0001	50.03.0436		BC 237 B vA	ITT+TI+PhvMot
	R..0001	57.11.4221	220	2%, 0207 v MF	
	R..0002	57.11.4272	2.7 K	2%, 0207 v MF	
	R..0003	57.11.4102	1 K	2%, 0207 v MF	
	R..0004	57.11.4332	3.3 K	2%, 0207 v MF	
	R..0005	57.11.4102	1 K	2%, 0207 v MF	
	R..0006	57.11.4100	10	2%, 0207 v MF	
	W..0001	1.777.250.93		WL-TACHO BOARD	St

(01) 12.08.87 PARTNUMBER CHANGE

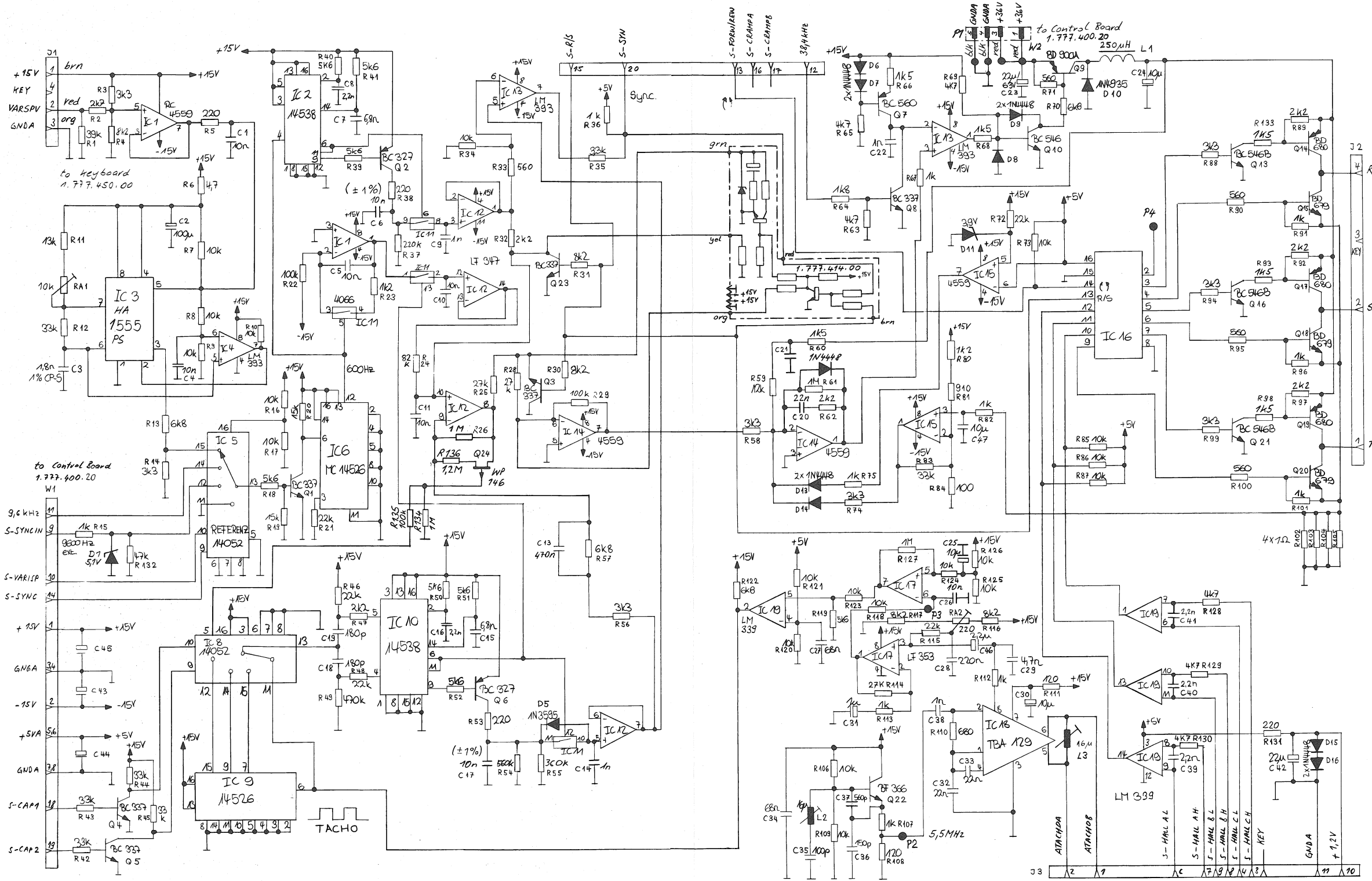
MANUFACTURER: Mot=Motorola, ITT=Intermetall, Ph=Phillips, Op=Optron,  
St=Studer, Ti=Texas Instruments, GI=General Instruments,  
AMP=AMP Incorporated.

ORIG 86/09/19 (01) 87/08/12

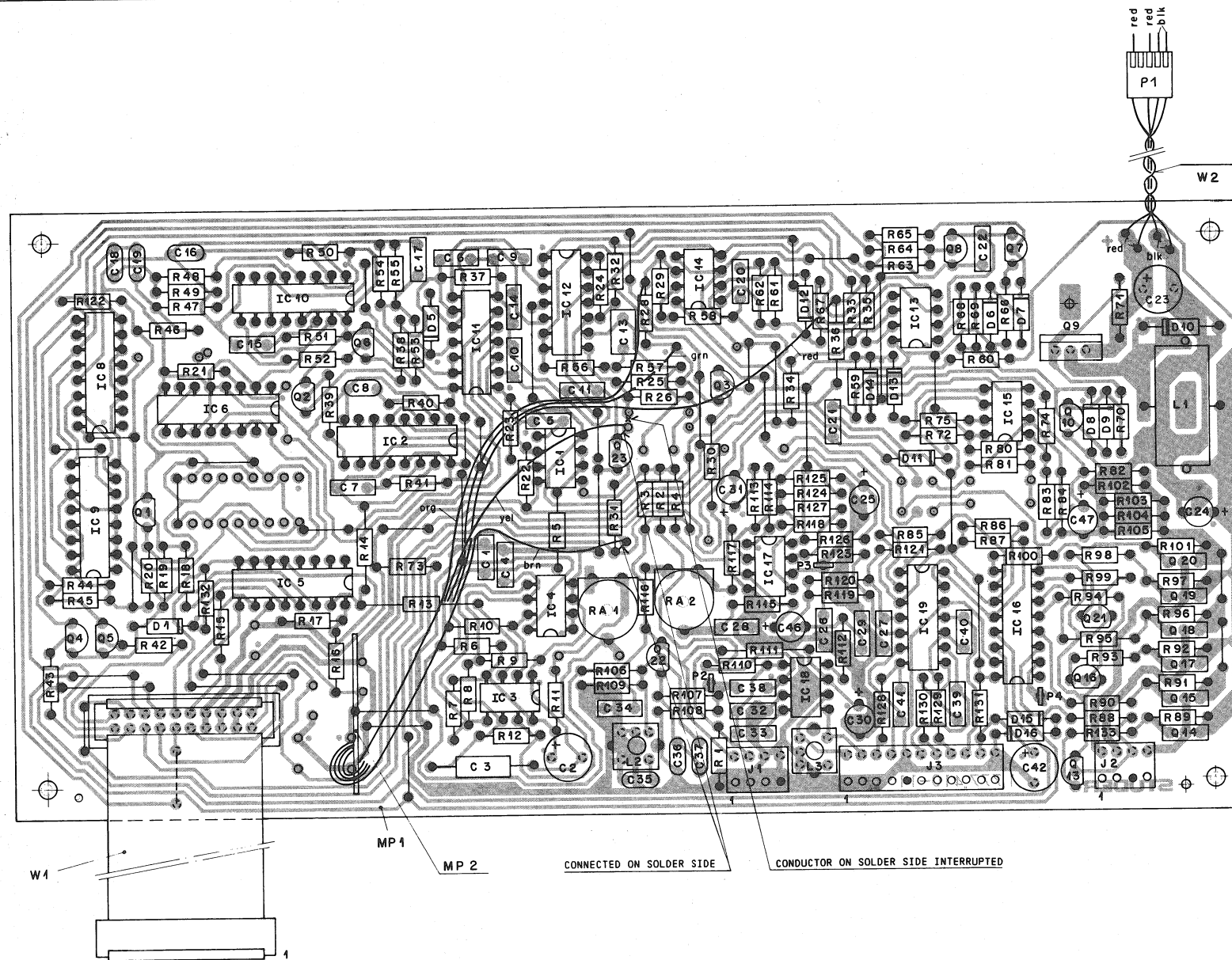
STUDER (01) 87/08/12 TACHO BOARD

1.777.250.00 PAGE 1

CAPSTAN SERVO BOARD 1.777.410.21



CAPSTAN SERVO BOARD 1.777.410.21



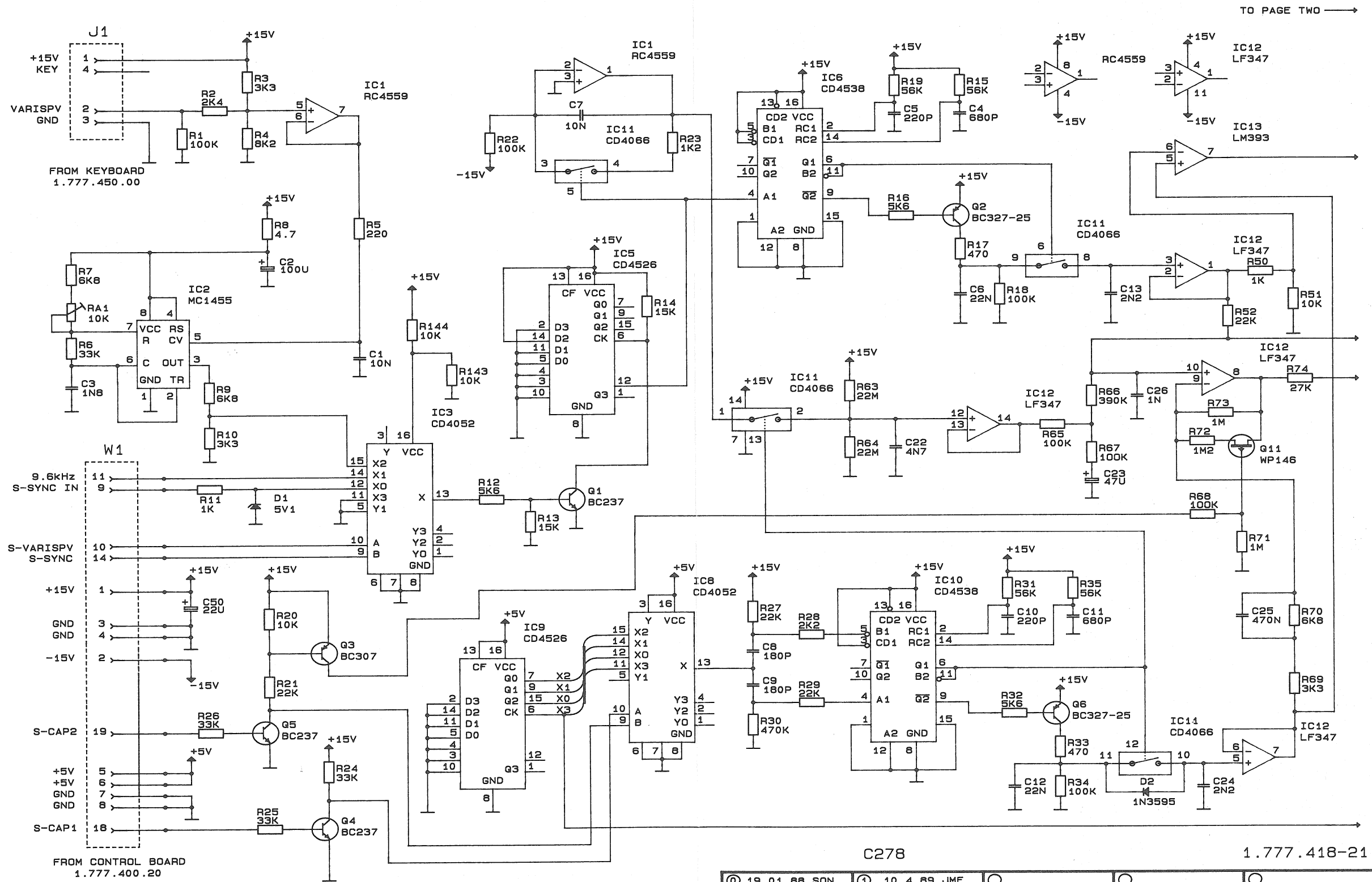
IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0001	59-06-5103	-01 U	5%	63V + PETP	
C..0002	59-22-5101	100 U	-20%	25V + EL	
C..0003	59-12-7182	1800 P	1%	63V + PS	
C..0004	59-06-5103	-01 U	5%	63V + PETP	
C..0005	59-06-5103	-01 U	5%	63V + PETP	
C..0006	59-05-1103	-01 U	1%	63V + PP	
C..0007	59-06-5682	6800 P	5%	63V + PETP	
C..0008	59-06-5222	2200 P	5%	63V + PETP	
C..0009	59-06-0102	1000 P	10%	63V + PETP	
C..0010	59-06-5103	-01 U	5%	63V + PETP	
C..0011	59-06-5103	-01 U	5%	63V + PETP	
C..0012				not connected	
C..0013	59-06-5474	+47 U	5%	63V + PETP	
C..0014	59-06-0102	1000 P	10%	63V + PETP	
C..0015	59-06-5682	6800 P	5%	63V + PETP	
C..0016	59-06-5222	2200 P	5%	63V + PETP	
C..0017	59-05-1103	-01 U	1%	63V + PP	
C..0018	59-34-4181	180 P	5%	N750 + CER	
C..0019	59-34-4181	180 P	5%	N750 + CER	
C..0020	59-06-5223	+022 U	5%	63V + PETP	
C..0021				not connected	
C..0022	59-06-5102	1000 P	5%	63V + PETP	
C..0023	59-22-8220	22 U	-20%	63V + EL	
C..0024	59-22-8100	10 U	-20%	63V + EL	
C..0025	59-22-6100	10 U	-20%	63V + EL	
C..0026	59-06-5103	-01 U	5%	63V + PETP	
C..0027	59-06-5683	+068 U	5%	63V + PETP	
C..0028	59-06-5224	-220 U	5%	63V + PETP	
C..0029	59-06-5472	4700 P	5%	63V + PETP	
C..0030	59-22-6100	10 U	-20%	63V + EL	
C..0031	59-22-8109	-10 U	-20%	63V + EL	
C..0032	59-06-5223	-022 U	5%	63V + PETP	
C..0033	59-06-5223	-022 U	5%	63V + PETP	
C..0034	59-06-5683	+068 U	5%	63V + PETP	
C..0035	59-34-4181	180 P	5%	N750 + CER	
C..0036	59-34-4151	150 P	5%	N750 + CER	
C..0037	59-34-5561	560 P	5%	N1500 + CER	

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0038	59-06-5102	1000 P	5%	63V + PETP	
C..0039	59-06-0222	2.2 nF	10%	63V + PETP	
C..0040	59-06-0222	2.2 nF	10%	63V + PETP	
C..0041	59-06-0222	2.2 nF	10%	63V + PETP	
C..0042	59-22-6220	22 U	-20%	63V + EL	
C..0043				not connected	
C..0044				not connected	
C..0045				not connected	
C..0046	59-22-8229	2.2 U	-20%	50V + EL	
C..0047	59-22-6100	10 U	-20%	63V + EL	
C..0048				not connected	
D..0001	50-04-1112	5.1 V	5%	0.40W, 2% not connected	ITT+Mot
D..0002				not connected	
D..0003				not connected	
D..0004				not connected	
D..0005	50-04-0134			IN 3995 DMV, FDH 300	Fc+SeS
D..0006	50-04-0125			LN 4448 S1	
D..0007	50-04-0125			LN 4448 S1	
D..0008	50-04-0125			LN 4448 S1	
D..0009	50-04-0125			LN 4448 S1	
D..0010	50-04-0508			LN 4935..37, BYH 100-200	ITT+Mot+Ph
D..0011	50-04-1101	3.9 V	5%	0.40W, 2% LN 4448 S1	
D..0012	50-04-0125			LN 4448 S1	
D..0013	50-04-0125			LN 4448 S1	
D..0014	50-04-0125			LN 4448 S1	
D..0015	50-04-0125			LN 4448 S1	
D..0016	50-04-0125			LN 4448 S1	
IC..0001	50-09-0107			RC 4559 NP, UPC 4559	RA+NEC
IC..0002	50-07-1538			MC14538 BCP, HEF 4538 BP+A	Mot+Ph
IC..0003	50-05-0158			HA 1555 PS	Sig+Mot+RA
IC..0004	50-05-0283			LM 393 P	TI+NS
IC..0005	50-07-0024			MC 14052 BCP, F052 BCP +A	Mot+SGS
IC..0006	50-07-0526			4 526 BCP, MC14 526 BCP +A	Ph+Mot
IC..0007	50-07-0024			MC 14052 BCP, F052 BCP +A	Mot+SGS
IC..0008	50-07-0526			4 526 BCP, MC14 526 BCP +A	Ph+Mot
IC..0009	50-07-0526			MC14 538 BCP, HEF 4538 BP+A	MOT+PH
IC..0010	50-07-1538				

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
IC..0011	50-07-0066			4066 BCP + MC14066 BCP +A	Ph+Mot
IC..0012	50-09-0104			LF 347 N	NS
IC..0013	50-05-0283			LM 393 + T08 0193 DP +A	TI+NS
IC..0014	50-09-0107			RC 4559 NP, UPC 4559	RA+NEC
IC..0015	50-09-0107			RC 4559 NP, UPC 4559	RA+NEC
IC..0016	1.777-411.20			CAPSTAN COMMUTATOR LOGIC	ST
IC..0017	50-09-0101			TL 072 CP, LF 353 N	TI+Th
IC..0018	50-11-0137			TBA 129	Sie
IC..0019	50-11-0104			LM 339 N	NS+Fc+Mot
J..0001	54-01-0241	4 POL.		STRIP CIS	AMP
J..0002	54-01-0241	4 POL.		STRIP CIS	AMP
J..0003	54-01-0291	11 POL.		STRIP CIS	AMP
L..0001	62-03-0025	250 MH		2 A + FILTER	Tokin
L..0002	1.022+222.00	16 MH		HF-DROSSEL	St
L..0003	1.022+222.00	16 MH		HF-DROSSEL	St
P..0001	54-01-0264	5 POL.		CASING CIS	St
P..0002	54-02-0320			TEST POINT	St
P..0003	54-02-0320			TEST POINT	St
P..0004	54-02-0320			TEST POINT	St
MP..0001	1.777-410.11			CAPSTAN-SERVO PCB	St
MP..0002	1.777-414-00			FAST START BOARD	
Q..0001	50-03-0340			BC 337-25	ITT+Ph
Q..0002	50-03-0351			BC 337-25	Sie+ITT
Q..0003	50-03-0340			BC 337-25	
Q..0004	50-03-0340			BC 337-25	
Q..0005	50-03-0340			BC 337-25	
Q..0006	50-03-0351			BC 327-25	
Q..0007	50-03-0496			BC 560	+A Sie
Q..0008	50-03-0340			BC 337-25	
Q..0009	50-03-0513			BD 900 A BDW 94 B	Mot+SGS
Q..0010	50-03-0491			BC 566 B	ITT+Ph+Mot+Sie
Q..0011				not connected	



CAPSTAN SERVO BOARD 1.777.412.21



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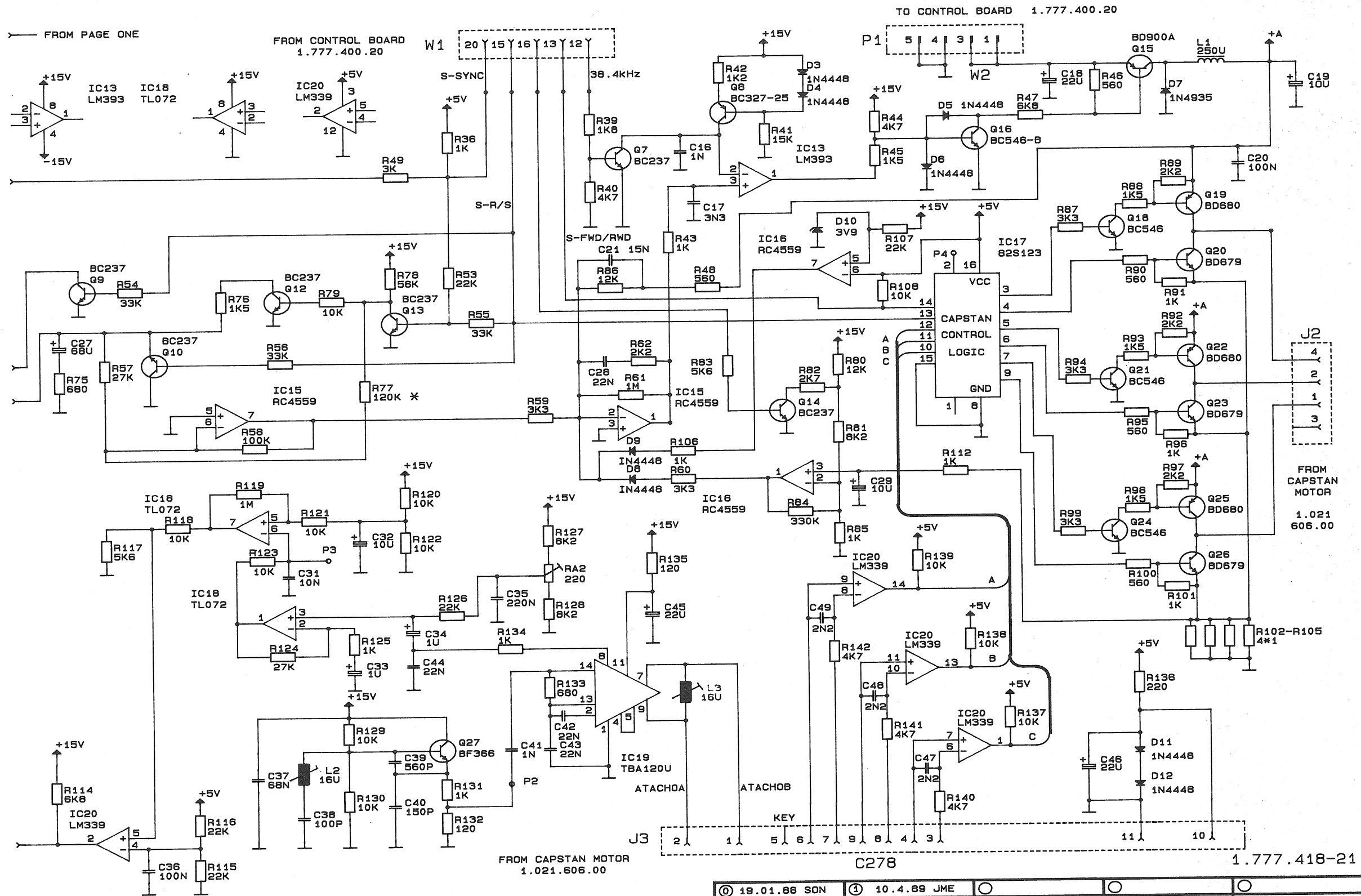
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1.777.418-21

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EGL	C270 C274			PAGE 1 OF 2
<b>STUDER</b>	CAPSTAN SERVO BOARD	"ESE"	SC	1.777.412-21



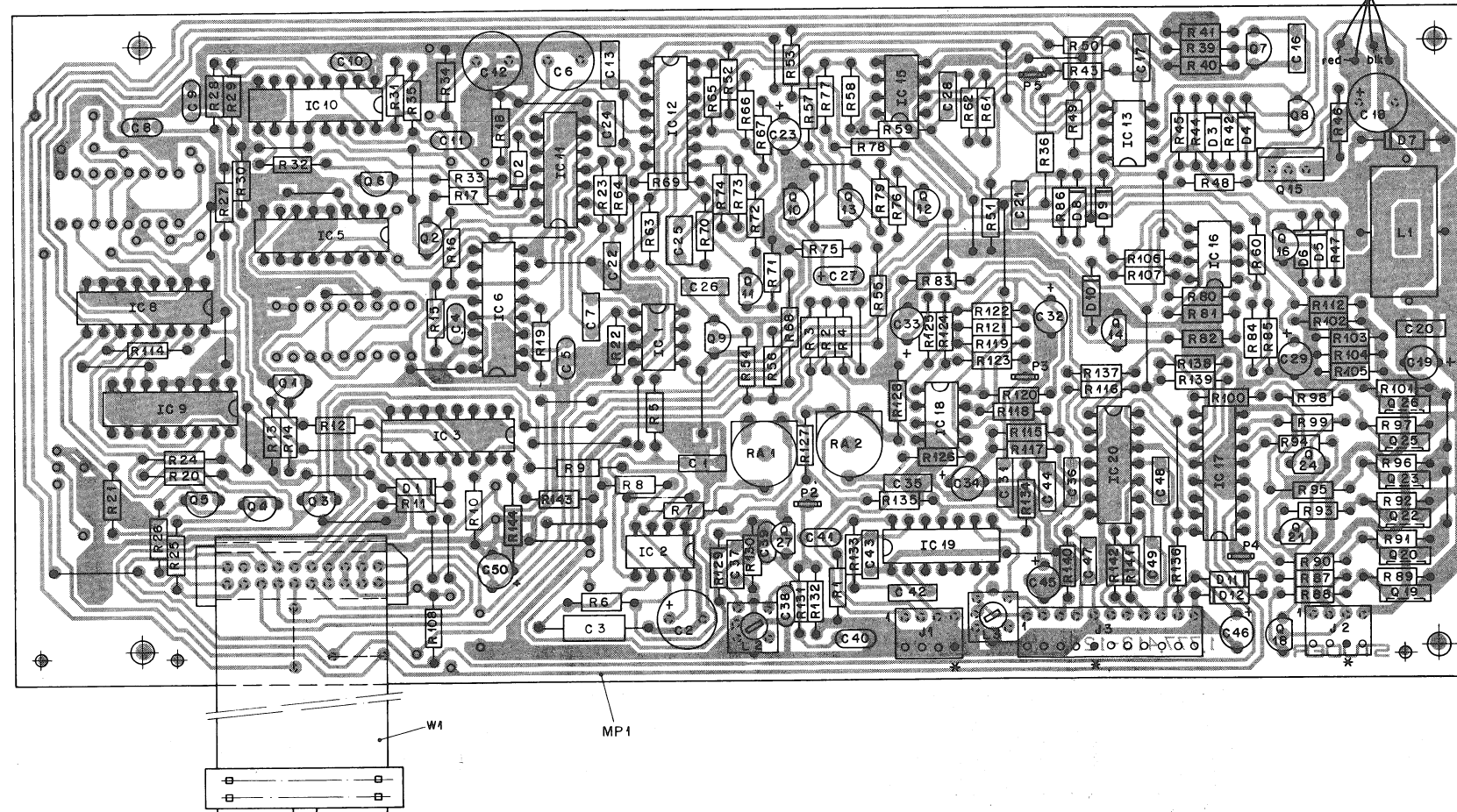
CAPSTAN SERVO BOARD 1.777.412.21



\* R77=390K FROM 1.777.418-21 VERSION!

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EGL	C270 C274			PAGE 2 OF 2
<b>STUDER</b>		CAPSTAN SERVO BOARD		"ESE" SC 1.777.412-21

CAPSTAN SERVO BOARD 1.777.412.21



IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1		59.06-0103	10 nF	10%, 63V, PE	
C.....2		59.22-5101	100 uF	-20%, 25V, EL	
C.....3		59.12-7182	1.8 nF	1%, 63V, PS	
C.....4		59.32-2581	680 nF	10%, 50V, Cer	
C.....5		59.34-4221	220 pF	5%, 63V, Cer	
C.....6		59.05-1223	22 nF	1%, 63V, PP	
C.....7		59.06-5103	10 nF	5%, 63V, PE	
C.....8		59.34-4181	180 pF	5%, 63V, Cer	
C.....9		59.34-4181	180 pF	5%, 63V, Cer	
C.....10		59.34-4221	220 pF	5%, 63V, Cer	
C.....11		59.32-2581	680 nF	10%, 50V, Cer	
C.....12		59.05-1223	22 nF	1%, 63V, PP	
C.....13		59.06-0222	2.2 nF	10%, 63V, PE	
C.....16		59.06-5102	1 nF	5%, 63V, PE	
C.....17		59.06-0332	3.3 nF	10%, 63V, PE	
C.....18		59.22-8220	22 uF	-20%, 63V, EL	
C.....19		59.22-6100	10 uF	-20%, 35V, EL	
C.....20		59.06-0104	100 nF	10%, 63V, PE	
C.....21		59.06-0153	15 nF	10%, 63V, PE	
C.....22		59.06-0472	4.7 nF	10%, 63V, PE	
C.....23		59.22-3470	4.7 uF	-20%, 10V, EL	
C.....24		59.06-0222	2.2 nF	10%, 63V, PE	
C.....25		59.06-5474	470 nF	5%, 63V, PE	
C.....26		59.06-0102	1 nF	10%, 63V, PE	
C.....27		59.26-0040	0.8 uF	20%, 6.3V, SAL	
C.....28		59.06-0223	2.2 nF	10%, 63V, PE	
C.....29		59.22-6100	10 uF	-20%, 35V, EL	
C.....31		59.06-0103	10 nF	10%, 63V, PE	
C.....32		59.22-6100	10 uF	-20%, 35V, EL	
C.....33		59.22-8109	1 uF	-20%, 63V, EL	
C.....34		59.22-8109	1 uF	-20%, 63V, EL	
C.....35		59.06-0224	2.2 nF	10%, 63V, PE	
C.....36		59.06-0104	100 nF	10%, 63V, PE	
C.....37		59.06-0083	0.8 nF	10%, 63V, PE	
C.....38		59.34-4101	100 pF	5%, 63V, Cer	
C.....39		59.34-5561	560 pF	5%, 63V, Cer	
C.....40		59.34-4151	150 pF	5%, 63V, Cer	

STUDER (01) 89/04/10 CAPSTAN-SERVO-BOARD A PL 1.777.412.21 PAGE 1

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....41		59.32-4102	1 nF	20%, 63V, Cer	
C.....42		59.06-0223	2.2 nF	10%, 63V, PE	
C.....43		59.06-0223	2.2 nF	10%, 63V, PE	
C.....44		59.06-0223	2.2 nF	10%, 63V, PE	
C.....45		59.22-8220	22 uF	-20%, 63V, EL	
(01) C.....45		59.22-8220	22 uF	-20%, 35V, EL	
(00) C.....46		59.22-8220	22 uF	-20%, 63V, EL	
(01) C.....46		59.22-8220	22 uF	-20%, 35V, EL	
C.....47		59.06-0222	2.2 nF	10%, 63V, PE	
C.....48		59.06-0222	2.2 nF	10%, 63V, PE	
C.....49		59.06-0222	2.2 nF	10%, 63V, PE	
(00) C.....50		59.22-8220	22 uF	-20%, 63V, EL	
(01) C.....50		59.22-8220	22 uF	-20%, 35V, EL	
D.....1		50.04-1112	5.1 V	10%, 0.5W	
D.....2		50.04-0134	LN 3595		
D.....3		50.04-0125	LN 4448		
D.....4		50.04-0125	LN 4448		
D.....5		50.04-0125	LN 4448		
D.....6		50.04-0125	LN 4448		
D.....7		50.04-0508	LN 4935		
D.....8		50.04-0125	LN 4448		
D.....9		50.04-0125	LN 4448		
D.....10		50.04-1101	3.9 V	10%, 0.5W	
D.....11		50.04-0125	LN 4448		
D.....12		50.04-0125	LN 4448		
IC.....1		50.09-0107	RC 4559	Dual Op. Amp	Ra+NEC
IC.....2		50.07-0036	ICM 7555	CMOS	Mo+Sig+Ra
IC.....13		50.07-0014	MC 14052	CMOS	Mo+Sig
IC.....5		50.07-0526	MC 14526	CMOS	Mo+Ph
IC.....6		50.07-1538	MC 14538	CMOS	Mo+Ph
IC.....8		50.07-0024	MC 14052	CMOS	Mo+Sig
IC.....9		50.07-0526	MC 14526	CMOS	Mo+Ph
IC.....10		50.07-1538	MC 14538	CMOS	Mo+Ph
IC.....11		50.07-0066	LD 4066	CMOS	Mo+Ph
IC.....12		50.09-0104	LF 347 N	Quad Op. Amp	NS

STUDER (01) 89/04/10 CAPSTAN-SERVO-BOARD A PL 1.777.412.21 PAGE 2

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
IC.....13		50.05-0283	LM 393	Dual Comparator	Ti+NS
IC.....15		50.09-0107	RC 4559	Dual Op. Amp	Ra+NEC
IC.....16		50.09-0107	RC 4559	Dual Op. Amp	Ra+NEC
IC.....17		1.777-411-20		CAPSTAN COMMUTATOR LOGIC	St
IC.....18		50.09-0101	MC 14052	Dual Op. Amp	Ti+Tho
IC.....19		50.11-0151	TL 022	FM-Demodulator	Sie
IC.....20		50.11-0104	LM 339 N	Quad Comparator	NS+Fc,Not
J.....1		54-31-0241	4 pol	Strip CIS	AMP
J.....2		54-01-0241	4 pol	Strip CIS	AMP
J.....3		54-31-0291	11 pol	Strip CIS	AMP
L.....1		62-03-0025	250 uH	2 A FILTER	Token
L.....2		1.322-222-00	16 uH	HF-DRO SSEL	
L.....3		1.322-222-00	16 uH	HF-DRO SSEL	
(00) MP.....1		1.777-413-11		CAPSTAN-SERVO PCB	
(01) MP.....1		1.777-413-12		CAPSTAN-SERVO PCB	
P.....1		54-01-0264	5 pol	Casing CIS	
P.....2		54-02-0320		Test Point	
P.....3		54-02-0320		Test Point	
P.....4		54-02-0320		Test Point	
P.....5		54-02-0320		Test Point	
Q.....1		50-03-0436	BC 237-B	NPN	
Q.....2		50-03-0351	BC 327-25	PNP	
Q.....3		50-03-0515	BC 307-B	PNP	
Q.....4		50-03-0436	BC 237-B	NPN	
Q.....5		50-03-0436	BC 237-B	NPN	
Q.....6		50-03-0351	BC 327-25	PNP	
Q.....7		50-03-0436	BC 237-B	NPN	
Q.....8		50-03-0351	BC 327-25	PNP	
Q.....9		50-03-0436	BC 237-B	NPN	
Q.....10		50-03-0436	BC 237-B	NPN	
Q.....11		50-03-0329	MP 146	FET P-Channel	
Q.....12		50-03-0436	BC 237-B	NPN	

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CAPSTAN SERVO BOARD 1.777.412.21

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
Q....13	50.03.0436	BC 237-B		NPN		R....99	57.11.3332	3.3 KOhm	2%	+25W, MF	
Q....14	50.03.0436	BC 237-B		NPN		R....100	57.11.3561	560 Ohm	2%	+25W, MF	
Q....15	50.03.0513	BD 900-A		PNP-Darlington		R....101	57.11.3102	1 KOhm	2%	+25W, MF	
Q....16	50.03.0491	BC 546-B		NPN		R....102	57.11.3109	1 Ohm	2%	+25W, MF	
Q....18	50.03.0491	BC 546-B		NPN		R....103	57.11.3109	1 Ohm	2%	+25W, MF	
Q....19	50.03.0505	BD 680		PNP-Darlington		R....104	57.11.3109	1 Ohm	2%	+25W, MF	
Q....20	50.03.0504	BD 679		PNP-Darlington		R....105	57.11.3109	1 Ohm	2%	+25W, MF	
Q....21	50.03.0491	BC 546-B		NPN		R....106	57.11.3102	1 KOhm	2%	+25W, MF	
Q....22	50.03.0505	BD 680		PNP-Darlington		R....107	57.11.3223	22 KOhm	2%	+25W, MF	
Q....23	50.03.0504	BD 679		PNP-Darlington		R....108	57.11.3103	10 KOhm	2%	+25W, MF	
Q....24	50.03.0491	BC 546-B		NPN		R....109	57.11.3103	10 KOhm	2%	+25W, MF	
Q....25	50.03.0505	BD 680		PNP-Darlington		R....110	57.11.3223	22 KOhm	2%	+25W, MF	
Q....26	50.03.0504	BD 679		PNP-Darlington		R....111	57.11.3562	5.6 KOhm	2%	+25W, MF	
Q....27	50.03.0514	BF 366		NPN		R....112	57.11.3102	1 KOhm	2%	+25W, MF	
R....1	57.11.3104	100 KOhm	2%	+25W, MF		R....113	57.11.3103	10 KOhm	2%	+25W, MF	
R....2	57.11.3242	2.4 KOhm	2%	+25W, MF		R....114	57.11.3103	10 KOhm	2%	+25W, MF	
R....3	57.11.3332	3.3 KOhm	2%	+25W, MF		R....115	57.11.3223	22 KOhm	2%	+25W, MF	
R....4	57.11.3822	8.2 KOhm	2%	+25W, MF		R....116	57.11.3223	22 KOhm	2%	+25W, MF	
R....5	57.11.3221	220 Ohm	2%	+25W, MF		R....117	57.11.3562	5.6 KOhm	2%	+25W, MF	
R....6	57.11.3333	33 KOhm	2%	+25W, MF		R....118	57.11.3103	10 KOhm	2%	+25W, MF	
R....7	57.11.3682	6.8 KOhm	1%	+25W, MF		R....119	57.11.3105	1 MOhm	2%	+25W, MF	
R....8	57.11.3479	4.7 Ohm	2%	+25W, MF		R....120	57.11.3103	10 KOhm	2%	+25W, MF	
R....9	57.11.3682	6.8 KOhm	2%	+25W, MF		R....121	57.11.3103	10 KOhm	2%	+25W, MF	
R....10	57.11.3332	3.3 KOhm	2%	+25W, MF		R....122	57.11.3103	10 KOhm	2%	+25W, MF	
R....11	57.11.3102	1 KOhm	2%	+25W, MF		R....123	57.11.3103	10 KOhm	2%	+25W, MF	
R....12	57.11.3562	5.6 KOhm	2%	+25W, MF		R....124	57.11.3273	27 KOhm	2%	+25W, MF	
R....13	57.11.3153	15 KOhm	2%	+25W, MF		R....125	57.11.3102	1 KOhm	2%	+25W, MF	
R....14	57.11.3153	15 KOhm	2%	+25W, MF		R....126	57.11.3223	22 KOhm	2%	+25W, MF	
R....15	57.11.3563	5.6 KOhm	2%	+25W, MF		R....127	57.11.3922	8.2 KOhm	2%	+25W, MF	
R....16	57.11.3562	5.6 KOhm	2%	+25W, MF		R....128	57.11.3103	10 KOhm	2%	+25W, MF	
R....17	57.11.3471	4.7 Ohm	2%	+25W, MF		R....129	57.11.3103	10 KOhm	2%	+25W, MF	
R....18	57.11.3104	100 KOhm	1%	+25W, MF		R....130	57.11.3103	10 KOhm	2%	+25W, MF	
R....19	57.11.3563	5.6 KOhm	2%	+25W, MF		R....131	57.11.3102	1 KOhm	2%	+25W, MF	
R....20	57.11.3103	10 KOhm	2%	+25W, MF		R....132	57.11.3121	120 Ohm	2%	+25W, MF	
R....21	57.11.3223	22 KOhm	2%	+25W, MF		R....133	57.11.3681	680 Ohm	2%	+25W, MF	
R....22	57.11.3104	100 KOhm	2%	+25W, MF		R....134	57.11.3102	1 KOhm	2%	+25W, MF	
R....23	57.11.3122	1.2 KOhm	2%	+25W, MF		R....135	57.11.3121	120 Ohm	2%	+25W, MF	
R....24	57.11.3333	33 KOhm	2%	+25W, MF		R....136	57.11.3221	220 Ohm	2%	+25W, MF	
R....25	57.11.3333	33 KOhm	2%	+25W, MF		R....137	57.11.3103	10 KOhm	2%	+25W, MF	
R....26	57.11.3333	33 KOhm	2%	+25W, MF		R....138	57.11.3103	10 KOhm	2%	+25W, MF	
R....27	57.11.3223	22 KOhm	2%	+25W, MF		R....139	57.11.3103	10 KOhm	2%	+25W, MF	
R....28	57.11.3222	2.2 KOhm	2%	+25W, MF							
R....29	57.11.3223	22 KOhm	2%	+25W, MF							
R....30	57.11.3474	4.70 KOhm	2%	+25W, MF							
R....31	57.11.3563	5.6 KOhm	2%	+25W, MF							
R....32	57.11.3562	5.6 KOhm	2%	+25W, MF							
R....33	57.11.3471	4.70 Ohm	2%	+25W, MF							
R....34	57.11.3104	100 KOhm	1%	+25W, MF							
R....35	57.11.3563	5.6 KOhm	2%	+25W, MF							
R....36	57.11.3102	1 KOhm	2%	+25W, MF							
R....37	57.11.3182	1.8 KOhm	2%	+25W, MF							
R....38	57.11.3472	4.7 KOhm	2%	+25W, MF							
R....39	57.11.3153	15 KOhm	2%	+25W, MF							
R....40	57.11.3122	1.2 KOhm	2%	+25W, MF							
R....41	57.11.3153	15 KOhm	2%	+25W, MF							
R....42	57.11.3122	1.2 KOhm	2%	+25W, MF							
R....43	57.11.3102	1 KOhm	2%	+25W, MF							
R....44	57.11.3472	4.7 KOhm	2%	+25W, MF							
R....45	57.11.3152	1.5 KOhm	2%	+25W, MF							
R....46	57.11.3561	560 Ohm	2%	+25W, MF							
R....47	57.11.3582	6.8 KOhm	2%	+25W, MF							
R....48	57.11.3561	560 Ohm	2%	+25W, MF							
R....49	57.11.3302	3 KOhm	2%	+25W, MF							
R....50	57.11.3102	1 KOhm	2%	+25W, MF							
R....51	57.11.3103	10 KOhm	2%	+25W, MF							
R....52	57.11.3223	22 KOhm	2%	+25W, MF							
R....53	57.11.3223	22 KOhm	2%	+25W, MF							
R....54	57.11.3333	33 KOhm	2%	+25W, MF							
R....55	57.11.3333	33 KOhm	2%	+25W, MF							
R....56	57.11.3333	33 KOhm	2%	+25W, MF							
R....57	57.11.3273	27 KOhm	2%	+25W, MF							
R....58	57.11.3104	100 KOhm	2%	+25W, MF							
R....59	57.11.3332	3.3 KOhm	2%	+25W, MF							
R....60	57.11.3332	3.3 KOhm	2%	+25W, MF							
R....61	57.11.3105	1 MOhm	2%	+25W, MF							

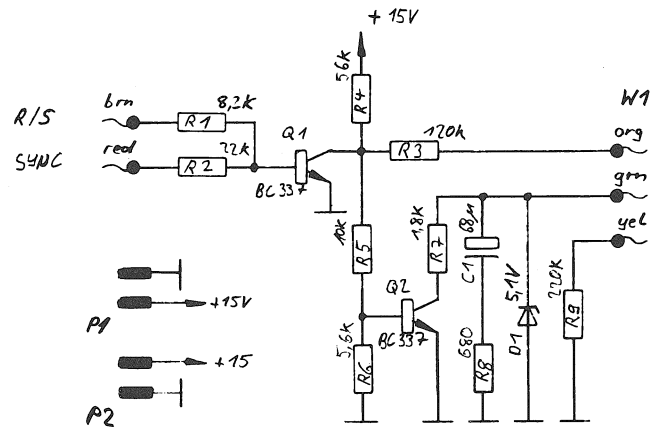
STUDER (01) 89/04/10 CAPSTAN-SERVO-BOARD A PL 1.777.412.21 PAGE 4

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R....23	57.11.3122	1.2 KOhm	2%	+25W, MF		R....140	57.11.3472	4.7 KOhm	2%	+25W, MF	
R....24	57.11.3333	33 KOhm	2%	+25W, MF		R....141	57.11.3472	4.7 KOhm	2%	+25W, MF	
R....25	57.11.3333	33 KOhm	2%	+25W, MF		R....142	57.11.3472	4.7 KOhm	2%	+25W, MF	
R....26	57.11.3333	33 KOhm	2%	+25W, MF		(01) R....143	57.11.3103	10 KOhm	2%	+25W, MF	
R....27	57.11.3223	22 KOhm	2%	+25W, MF		(01) R....144	57.11.3103	10 KOhm	2%	+25W, MF	
R....28	57.11.3222	2.2 KOhm	2%	+25W, MF							
R....29	57.11.3223	22 KOhm	2%	+25W, MF		RA....1	58.02.5103	10 KOhm	20%	+1 W, PESCH	
R....30	57.11.3474	4.70 KOhm	2%	+25W, MF		RA....2	58.02.5221	220 Ohm	20%	+1 W, PESCH	
R....31	57.11.3563	5.6 KOhm	2%	+25W, MF							
R....32	57.11.3562	5.6 KOhm	2%	+25W, MF		W....1	1.323.112.10	20 pol		Flatcable	
R....33	57.11.3471	4.70 Ohm	2%	+25W, MF		W....2	1.777.410.93			Wire List	
R....34	57.11.3104	100 KOhm	1%	+25W, MF							
R....35	57.11.3563	5.6 KOhm	2%	+25W, MF							
R....36	57.11.3102	1 KOhm	2%	+25W, MF							
R....37	57.11.3182	1.8 KOhm	2%	+25W, MF							
R....38	57.11.3472	4.7 KOhm	2%	+25W, MF							
R....39	57.11.3153	15 KOhm	2%	+25W, MF							
R....40	57.11.3122	1.2 KOhm	2%	+25W, MF							
R....41	57.11.3153	15 KOhm	2%	+25W, MF							
R....42	57.11.3122	1.2 KOhm	2%	+25W, MF							
R....43	57.11.3102	1 KOhm	2%	+25W, MF							
R....44	57.11.3472	4.7 KOhm	2%	+25W, MF							
R....45	57.11.3152	1.5 KOhm	2%	+25W, MF							
R....46	57.11.3561	560 Ohm	2%	+25W, MF							
R....47	57.11.3582	6.8 KOhm	2%	+25W, MF							
R....48	57.11.3561	560 Ohm	2%	+25W, MF							
R....49	57.11.3302	3 KOhm	2%	+25W, MF							
R....50	57.11.3102	1 KOhm	2%	+25W, MF							
R....51	57.11.3103	10 KOhm	2%	+25W, MF							
R....52	57.11.3223	22 KOhm	2%	+25W, MF							
R....53	57.11.3223	22 KOhm	2%	+25W, MF							
R....54	57.11.3333	33 KOhm	2%	+25W, MF							
R....55	57.11.3333	33 KOhm	2%	+25W, MF							
R....56	57.11.3333	33 KOhm	2%	+25W, MF							
R....57	57.11.3273	27 KOhm	2%	+25W, MF							
R....58	57.11.3104	100 KOhm	2%	+25W, MF							
R....59	57.11.3332	3.3 KOhm	2%	+25W, MF							
R....60	57.11.3332	3.3 KOhm	2%	+25W, MF							
R....61	57.11.3105	1 MOhm	2%	+25W, MF							

STUDER (01) 89/04/10 CAPSTAN-SERVO-BOARD A PL 1.777.412.21 PAGE 5

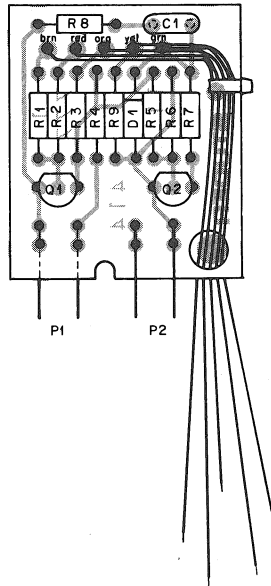
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R....62	57.11.3222	2.2 KOhm	2%	+25W, MF							
R....63	57.11.6226	22 MOhm	10%	+25W, MF							
R....64	57.11.6226	22 MOhm	10%	+25W, MF							
R....65	57.11.3104	100 KOhm	2%	+25W, MF							
R....66	57.11.3394	390 KOhm	2%	+25W, MF							
R....67	57.11.3104	100 KOhm	2%	+25W, MF							
R....68	57.11.3104	100 KOhm	2%	+25W, MF							
R....69	57.11.3332	3.3 KOhm	2%	+25W, MF							
R....70	57.11.3682	6.8 KOhm	2%	+25W, MF							
R....71											

FAST START BOARD 1.777.414.00



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	C 270			PAGE 1 OF 1
STUDER	FAST START BOARD	SC	1.777.414.00	

FAST START BOARD 1.777.414.00



IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	HANUF.
C..0001		59.26.0680	68 U	20%, 6.3V, SAL	
D..0001		50.04.1112	5.1 V	5%, +40W, Z.	
MP.0001		1.777.414.11		FAST START BOARD	
P..0001		54.01.0468	2 PDL	STRIP CIS ANGLES	
P..0002		54.01.0468	2 PDL	STRIP CIS ANGLES	
Q..0001		50.03.0340	BC 337-25		
Q..0002		50.03.0340	BC 337-25		
R..0001		57.11.4822	8.2 K	2%, 0207, MF	
R..0002		57.11.4223	22 K	2%, 0207, MF	
R..0003		57.11.4124	120 K	2%, 0207, MF	
R..0004		57.11.4563	56 K	2%, 0207, MF	
R..0005		57.11.4103	10 K	2%, 0207, MF	
R..0006		57.11.4562	5.6 K	2%, 0207, MF	
R..0007		57.11.4182	1.8 K	2%, 0207, MF	
R..0008		57.11.4681	680	2%, 0207, MF	
R..0009		57.11.4224	220 K	2%, 0207, MF	
W..0001		1.777.414.93		HL-FAST START BOARD	

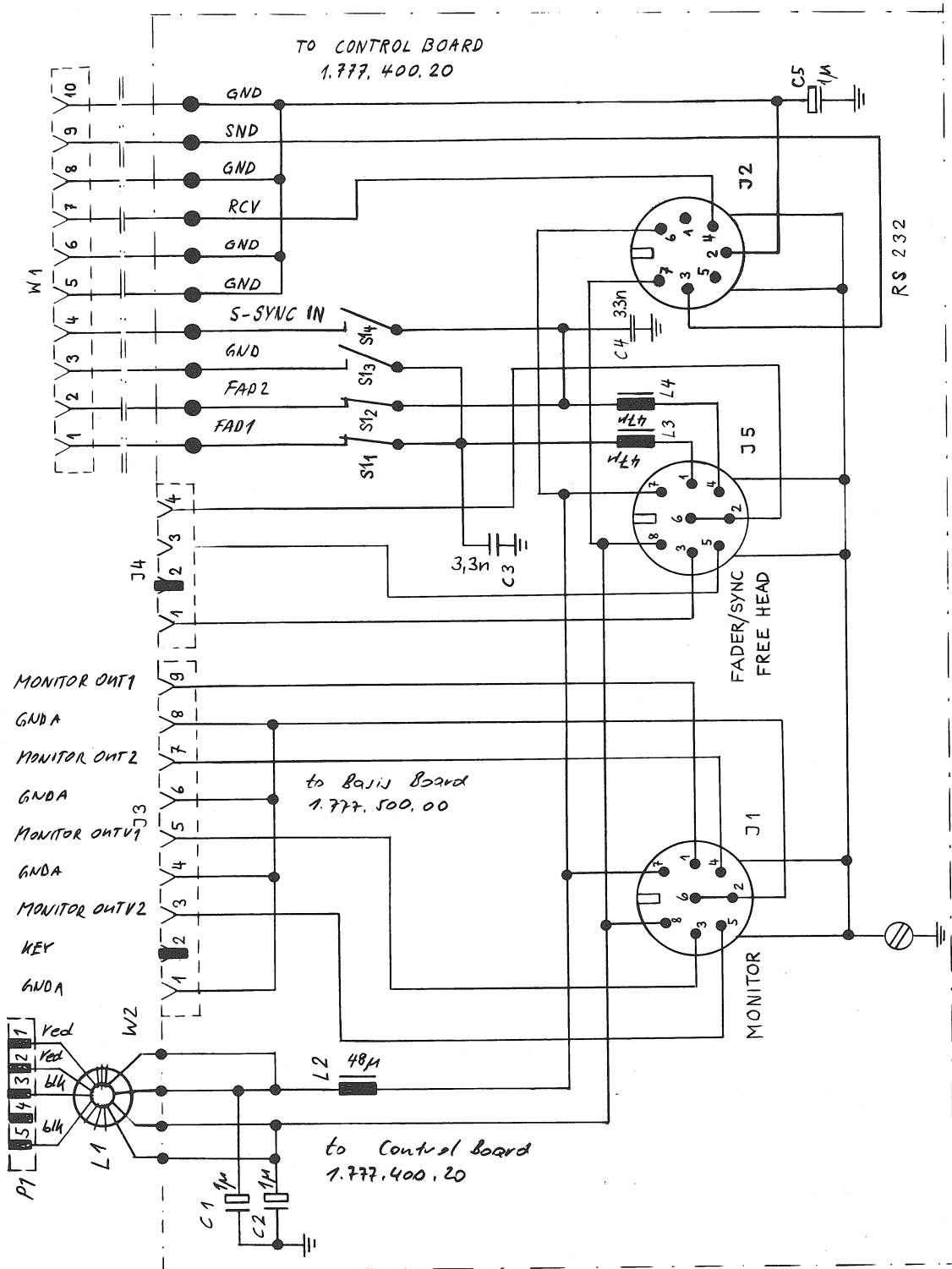
ORIG 87/09/28

STUDER (00) 87/09/28

FAST START BOARD

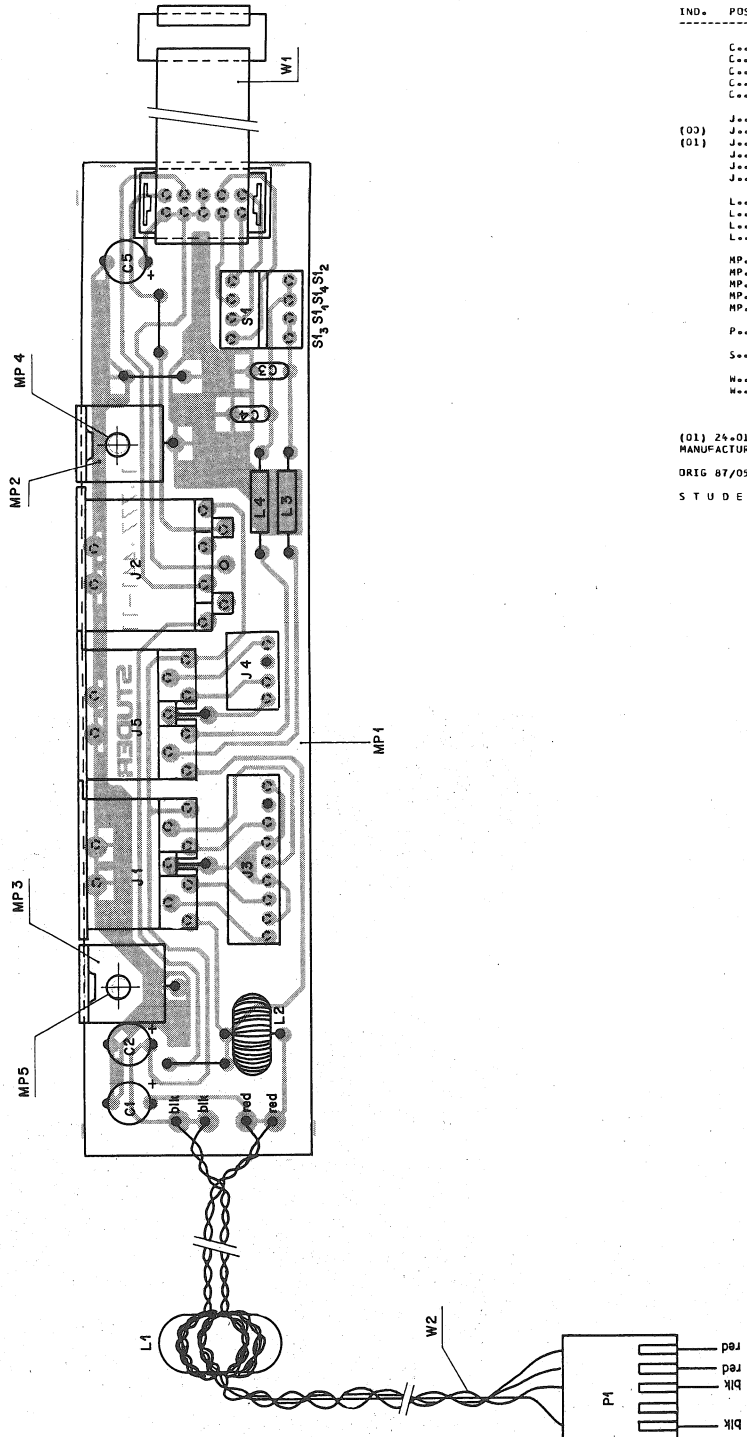
1.777.414.00 PAGE 1

CONNECTION BOARD 1.777.441.00



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	C 270			PAGE 1 OF 1
STUDER	CONNECTION BOARD			SC 1.777.441.00

CONNECTION BOARD 1.777.441.00



IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	
		C=0001	59.22.8109	1 U	-20%, 63V, EL	
		C=0002	59.22.8109	1 U	-20%, 63V, EL	
		C=0003	59.32.2332	3300 P	10%, 50V, CER	
		C=0004	59.32.2332	3300 P	10%, 50V, CER	
		C=0005	59.22.8109	1 U	-20%, 63V, EL	
		J=0001	54.20.2003	8 POL.	PRINT DIN	Hirschmann
(00)		J=0002	54.21.1247	7 POL.	PRINT DIN	Hirschmann
(01)		J=0002	54.99.0216	7 POL.	PRINT DIN	Hirschmann
		J=0003	54.01.0217	9 POL.	SOCKET STRIP CIS	AMP
		J=0004	54.01.0241	4 POL.	SOCKET STRIP CIS	AMP
		J=0005	54.20.2003	8 POL.	PRINT DIN	Hirschmann
		L=0001	61.02.0152	020/10*7	COIL	
		L=0002	62.03.0010	48U, 2A	COIL	
		L=0003	62.01.0138	47U	COIL	
		L=0004	62.01.0138	47U	COIL	
		MP=0001	1.777.441.11		CONNECTION-PCB	St
		MP=0002	1.726.780.01		HOLDER	St
		MP=0003	1.726.780.01		HOLDER	St
		MP=0004	28.21.2405	D 3*4	RIVET	St
		MP=0005	28.21.2405	D 3*4	RIVET	St
		P=0001	54.01.0264	5 POL.	CASING CIS	AMP
		S=0001	55.12.1001	4 pcs	DIL SWITCH ON/OFF	
		W=0001	1.023.110.04		FLATCABLE 10 POL. 0.27 M	St
		W=0002	1.777.441.93		WL-CONNECTION BOARD	St

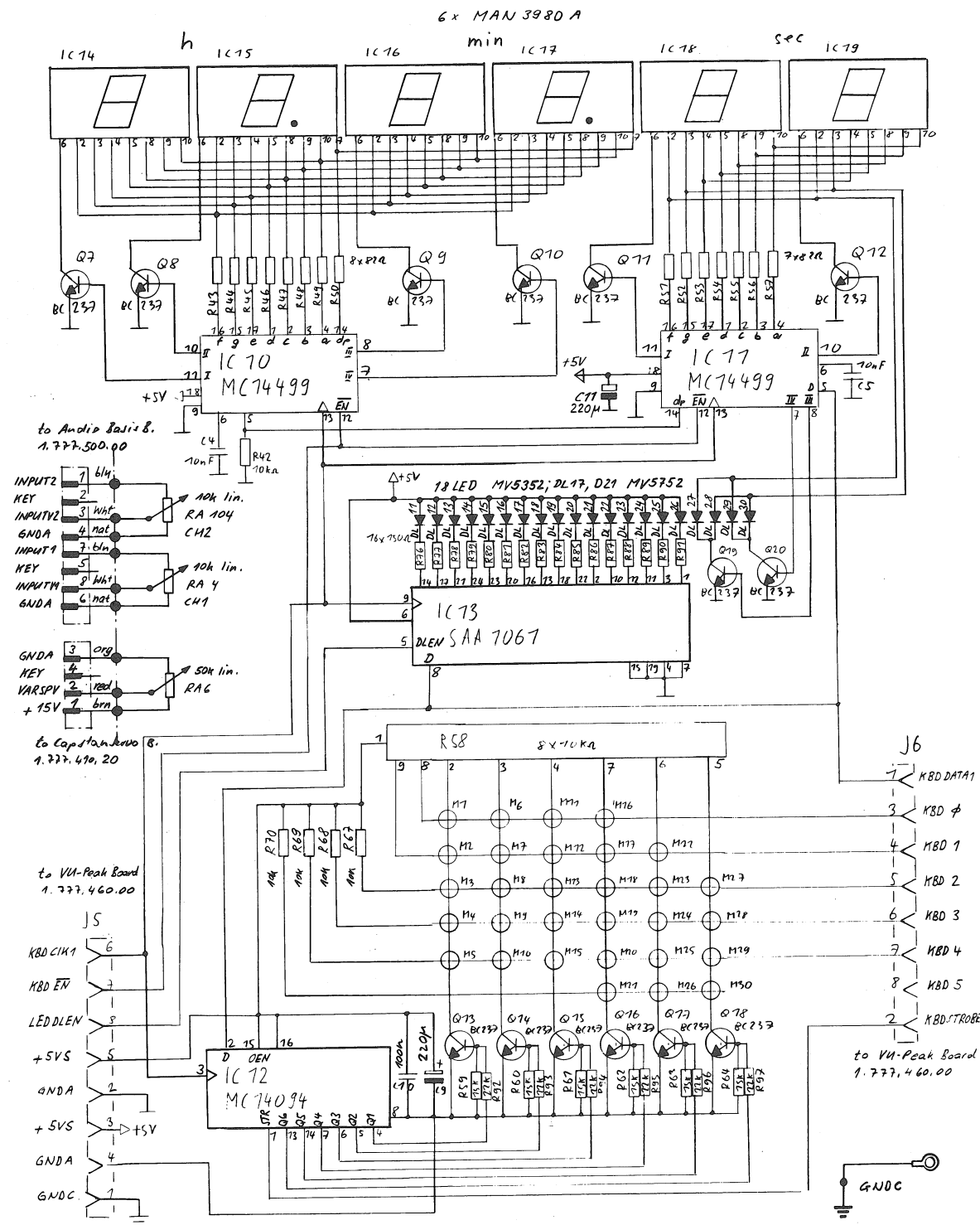
(01) 25-01-89 Number adjust  
 MANUFACTURER: AMP=AMP Incorporated, St=Studer.

ORIG 87/05/27 (01) 89/01/24

STUDER (01) 89/01/24 CONNECTION BOARD PL 1.777.441.00 PAGE 1



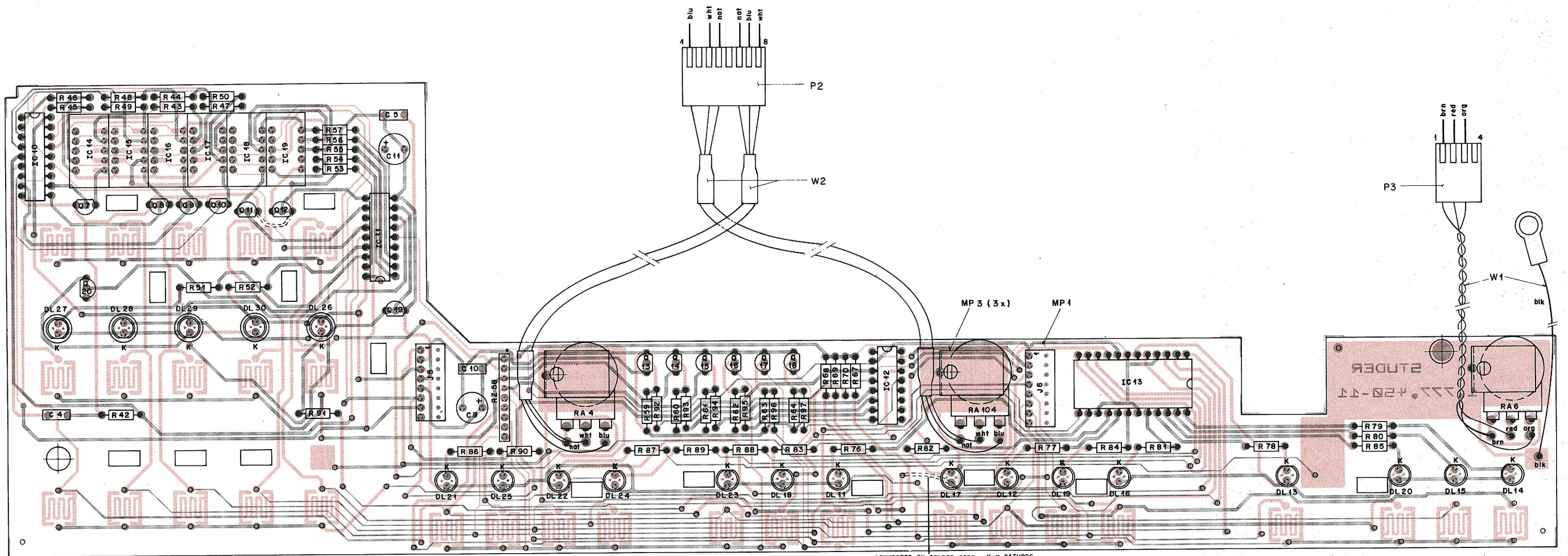
KEYBOARD 1.777.450.00



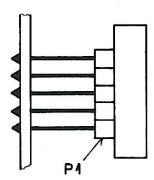
	J6.3	J6.4	J6.5	J6.6	J6.7	J6.8
Q 13	SEL M 1	STEP M 2	TRANS M 3	SEARCH M 4	RESET M 5	
Q 14	Z-LOG M 6 (D 27)	A-LOG M 7 (D 28)	LOOP M 8 (D 29)	T-DUMP M 9 (D 30)	EDIT M 10 (D 26)	
Q 15	<< M 11	>> M 12	PLAY M 13	STOP M 14	REC M 15	
Q 16	READY 1 M 16 (D 21)	INPUT 1 M 17 (D 25)	SYNC 1 M 18 (D 22)	REPRO 1 M 19 (D 24)	MIC M 20 (D 23)	UNCALINP. M 21 (D 18)
Q 17		LINE M 22 (D 11)	READY 2 M 23 (D 17)	INPUT 2 M 24 (D 12)	SYNC 2 M 25 (D 19)	REPRO 2 M 26 (D 16)
Q 18			UNCALOUT. M 27 (D 13)	SLOW M 28 (D 20)	FAST M 29 (D 15)	VARISPEED M 30 (D 14)



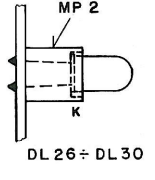
KEYBOARD 1.777.450.00



CONNECTED ON SOLDER SIDE K = CATHODE

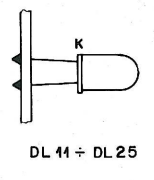


IC 14 + IC 19



MP 2

DL 26 ÷ DL 30



K

DL 14 ÷ DL 25

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C..0004	59.06.5103	+01 U	5%, 63V + PETF	
	C..0005	59.06.5103	-01 U	5%, 63V + PETF	
	C..0009	59.22.3221	220 U	-20%, 10V + EL	
	C..0010	59.06.0104	+1 U	10%, 63V + PETF	
	C..0011	59.22.3221	220 U	-20%, 10V + EL	
(00)	DL-0011	50.04.2114	MV 5152		GI
(01)	DL-0011	50.04.2500	MV 5352		GI
(00)	DL-0012	50.04.2114	MV 5152		GI
(01)	DL-0012	50.04.2500	MV 5352		GI
(00)	DL-0013	50.04.2114	MV 5152		GI
(01)	DL-0013	50.04.2500	MV 5352		GI
(00)	DL-0014	50.04.2114	MV 5152		GI
(01)	DL-0014	50.04.2500	MV 5352		GI
(00)	DL-0015	50.04.2114	MV 5152		GI
(01)	DL-0015	50.04.2500	MV 5352		GI
(00)	DL-0016	50.04.2114	MV 5152		GI
(01)	DL-0016	50.04.2500	MV 5352		GI
(00)	DL-0017	50.04.2114	MV 5152		GI
(01)	DL-0017	50.04.2500	MV 5352		GI
(00)	DL-0018	50.04.2114	MV 5152		GI
(01)	DL-0018	50.04.2500	MV 5352		GI
(00)	DL-0019	50.04.2114	MV 5152		GI
(01)	DL-0019	50.04.2500	MV 5352		GI
(00)	DL-0020	50.04.2114	MV 5152		GI
(01)	DL-0020	50.04.2500	MV 5352		GI
(00)	DL-0021	50.04.2114	MV 5152		GI
(01)	DL-0021	50.04.2500	MV 5352		GI
(00)	DL-0022	50.04.2114	MV 5152		GI
(01)	DL-0022	50.04.2500	MV 5352		GI
(00)	DL-0023	50.04.2114	MV 5152		GI
(01)	DL-0023	50.04.2500	MV 5352		GI
(00)	DL-0024	50.04.2114	MV 5152		GI
(01)	DL-0024	50.04.2500	MV 5352		GI
(00)	DL-0025	50.04.2114	MV 5152		GI
(01)	DL-0025	50.04.2500	MV 5352		GI
(00)	DL-0026	50.04.2114	MV 5152		GI
(01)	DL-0026	50.04.2500	MV 5352		GI
(00)	DL-0027	50.04.2114	MV 5152		GI

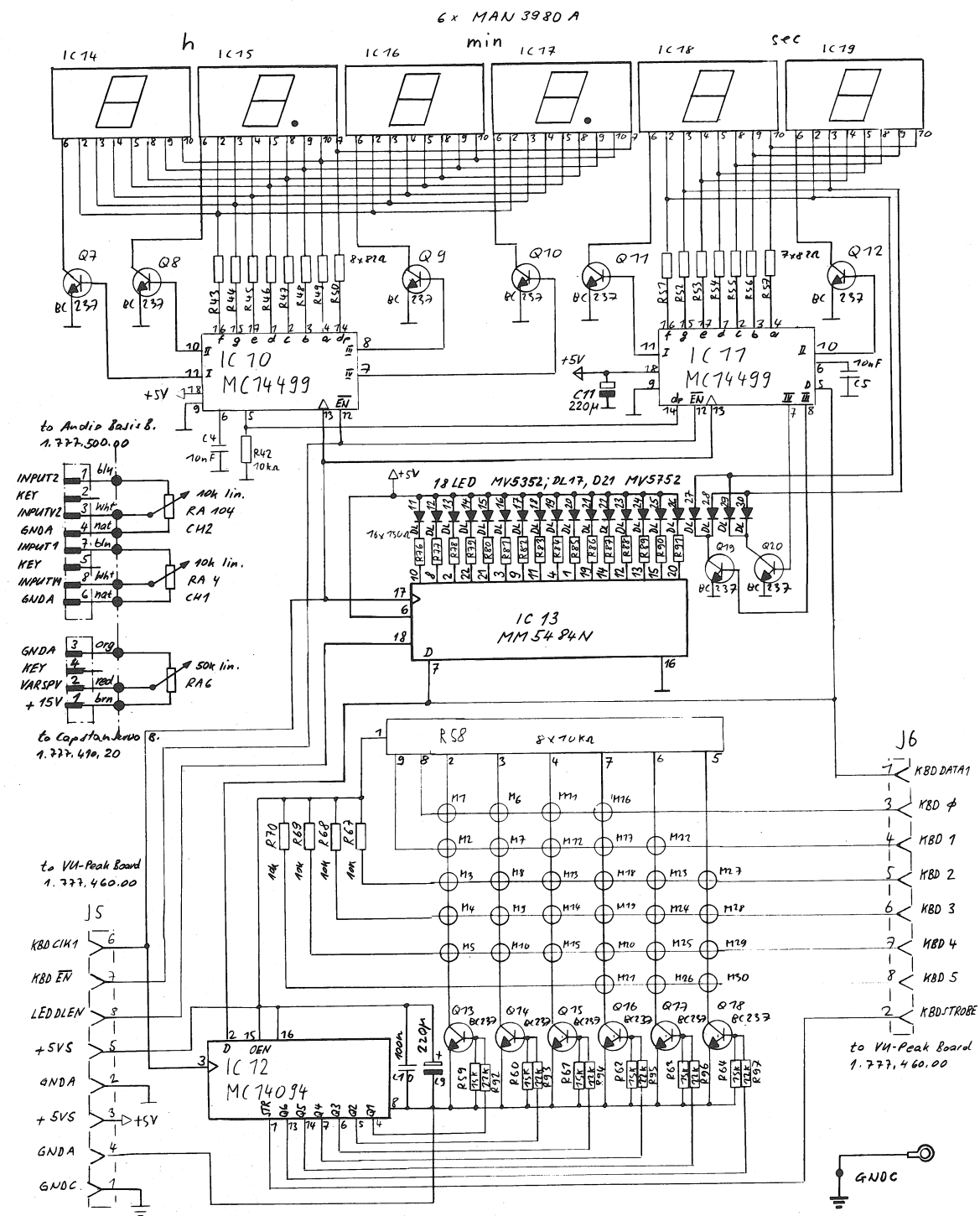
IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(01)	DL-0027	50.04.2500	MV 5352		GI
(00)	DL-0028	50.04.2114	MV 5152		GI
(01)	DL-0028	50.04.2500	MV 5352		GI
(00)	DL-0029	50.04.2114	MV 5152		GI
(01)	DL-0029	50.04.2500	MV 5352		GI
(00)	DL-0030	50.04.2114	MV 5152		GI
(01)	DL-0030	50.04.2500	MV 5352		GI
	P..0001	53.03.0228	60 pcs	CASING	St
	P..0002	54.01.0265	8 POL.	CASING	St
	P..0003	54.01.0280	4 POL.	CASING	St
	IC-0010	50.07.0010	MC 14499MC	+A	Mot
	IC-0011	50.07.0010	MC 14499MC	+A	Mot
	IC-0012	50.07.0010	MC 14499MC	+A	Mot
	IC-0013	50.13.0106	SA 1061	Ph	Mot
	IC-0014	73.01.0150	MAN 3980A	GI	MAN
	IC-0015	73.01.0150	MAN 3980A	GI	MAN
	IC-0016	73.01.0150	MAN 3980A	GI	MAN
	IC-0017	73.01.0150	MAN 3980A	GI	MAN
	IC-0018	73.01.0150	MAN 3980A	GI	MAN
	IC-0019	73.01.0150	MAN 3980A	GI	MAN
	MP-0001	1.777.450.11	KEYBOARD PCB	St	
	MP-0002	1.777.450.04	5 pcs		St
	MP-0003	1.777.450.01	3 pcs		St
(02)	MP-0004	1.777.470.04	15 pcs		St
	J..0005	54.01.0262	8 POL.	STRIP CIS	AMP
	J..0006	54.01.0262	8 POL.	STRIP CIS	AMP
	Q..0007	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0008	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0009	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0010	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0011	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0012	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	Q..0013	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0014	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0015	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0016	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0017	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0018	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0019	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	Q..0020	50.03.0436	BC 547 B+BC 237 B		SievTi,ITT
	R..0042	57.11.4103	10 K	2%, 0207 + MF	
	R..0043	57.11.4820	82	2%, 0207 + MF	
	R..0044	57.11.4820	82	2%, 0207 + MF	
	R..0045	57.11.4820	82	2%, 0207 + MF	
	R..0046	57.11.4820	82	2%, 0207 + MF	
	R..0047	57.11.4820	82	2%, 0207 + MF	
	R..0048	57.11.4820	82	2%, 0207 + MF	
	R..0049	57.11.4820	82	2%, 0207 + MF	
	R..0050	57.11.4820	82	2%, 0207 + MF	
	R..0051	57.11.4820	82	2%, 0207 + MF	
	R..0052	57.11.4820	82	2%, 0207 + MF	
	R..0053	57.11.4820	82	2%, 0207 + MF	
	R..0054	57.11.4820	82	2%, 0207 + MF	
	R..0055	57.11.4820	82	2%, 0207 + MF	
	R..0056	57.11.4820	82	2%, 0207 + MF	
	R..0057	57.11.4820	82	2%, 0207 + MF	
	R..0058	57.11.4153	15 K	2%, 0207 + MF	
	R..0059	57.11.4153	15 K	2%, 0207 + MF	
	R..0060	57.11.4153	15 K	2%, 0207 + MF	
	R..0061	57.11.4153	15 K	2%, 0207 + MF	
	R..0062	57.11.4153	15 K	2%, 0207 + MF	
	R..0063	57.11.4153	15 K	2%, 0207 + MF	
	R..0064	57.11.4103	10 K	2%, 0207 + MF	
	R..0067	57.11.4103	10 K	2%, 0207 + MF	
	R..0068	57.11.4103	10 K	2%, 0207 + MF	
	R..0069	57.11.4103	10 K	2%, 0207 + MF	
	R..0070	57.11.4103	10 K	2%, 0207 + MF	
	R..0076	57.11.4151	150	2%, 0207 + MF	
	R..0077	57.11.4151	150	2%, 0207 + MF	

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	R..0078	57.11.4151	150	2%, 0207 + MF	
	R..0079	57.11.4151	150	2%, 0207 + MF	
	R..0080	57.11.4151	150	2%, 0207 + MF	
	R..0081	57.11.4151	150	2%, 0207 + MF	
	R..0082	57.11.4151	150	2%, 0207 + MF	
	R..0083	57.11.4151	150	2%, 0207 + MF	
	R..0084	57.11.4151	150	2%, 0207 + MF	
	R..0085	57.11.4151	150	2%, 0207 + MF	
	R..0086	57.11.4151	150	2%, 0207 + MF	
	R..0087	57.11.4151	150	2%, 0207 + MF	
	R..0088	57.11.4151	150	2%, 0207 + MF	
	R..0089	57.11.4151	150	2%, 0207 + MF	
	R..0090	57.11.4151	150	2%, 0207 + MF	
	R..0091	57.11.4151	150	2%, 0207 + MF	
	R..0092	57.11.4223	22 K	2%, 0207 + MF	
	R..0093	57.11.4223	22 K	2%, 0207 + MF	
	R..0094	57.11.4223	22 K	2%, 0207 + MF	
	R..0095	57.11.4223	22 K	2%, 0207 + MF	
	R..0096	57.11.4223	22 K	2%, 0207 + MF	
	R..0097	57.11.4223	22 K	2%, 0207 + MF	
	RA-0004	1.777.450.02	10 K		St
	RA-0006	1.777.450.03	50 K		St
	RA-0104	1.777.450.02	10 K		St
	RZ-0058	57.88.4103	8010K		St
	W..0001	1.777.450.93		KL-KEYBOARD	St
	W..0002	1.777.450.94		KL-KEYBOARD	St

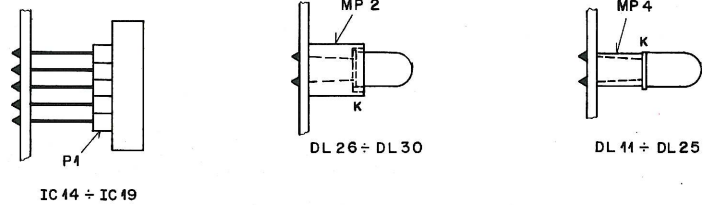
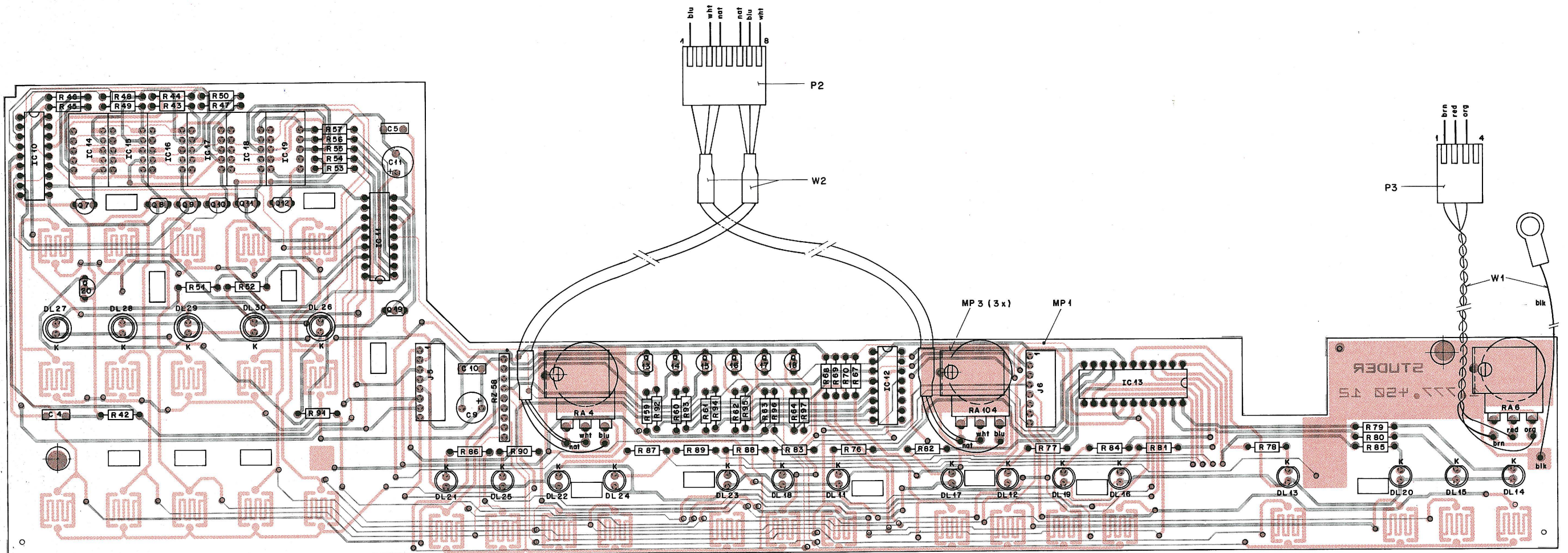
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(01)	12.08.87	Value adjust			
(02)	03.02.88	MP modification			
MANUFACTURER: Mot=Motorola, GI=General Instruments, Ph=Philips, Sie=Siemens, AMP=AMP Incorporated, St=Studer, TI=Texas Instruments, ITT=International, NS=National Semiconductors.					
ORIG	86/09/19	(01) 87/08/12	(02) 88/02/03		
STUDER	(02) 88/02/03	KEYBOARD A	1.777.450.00	PAGE 3	

KEYBOARD 1.777.451.00



① 4.1.88 8 F	C 270	PAGE 1 OF 2
STUDER	KEYBOARD	*ESE* SC 1.777.451.00

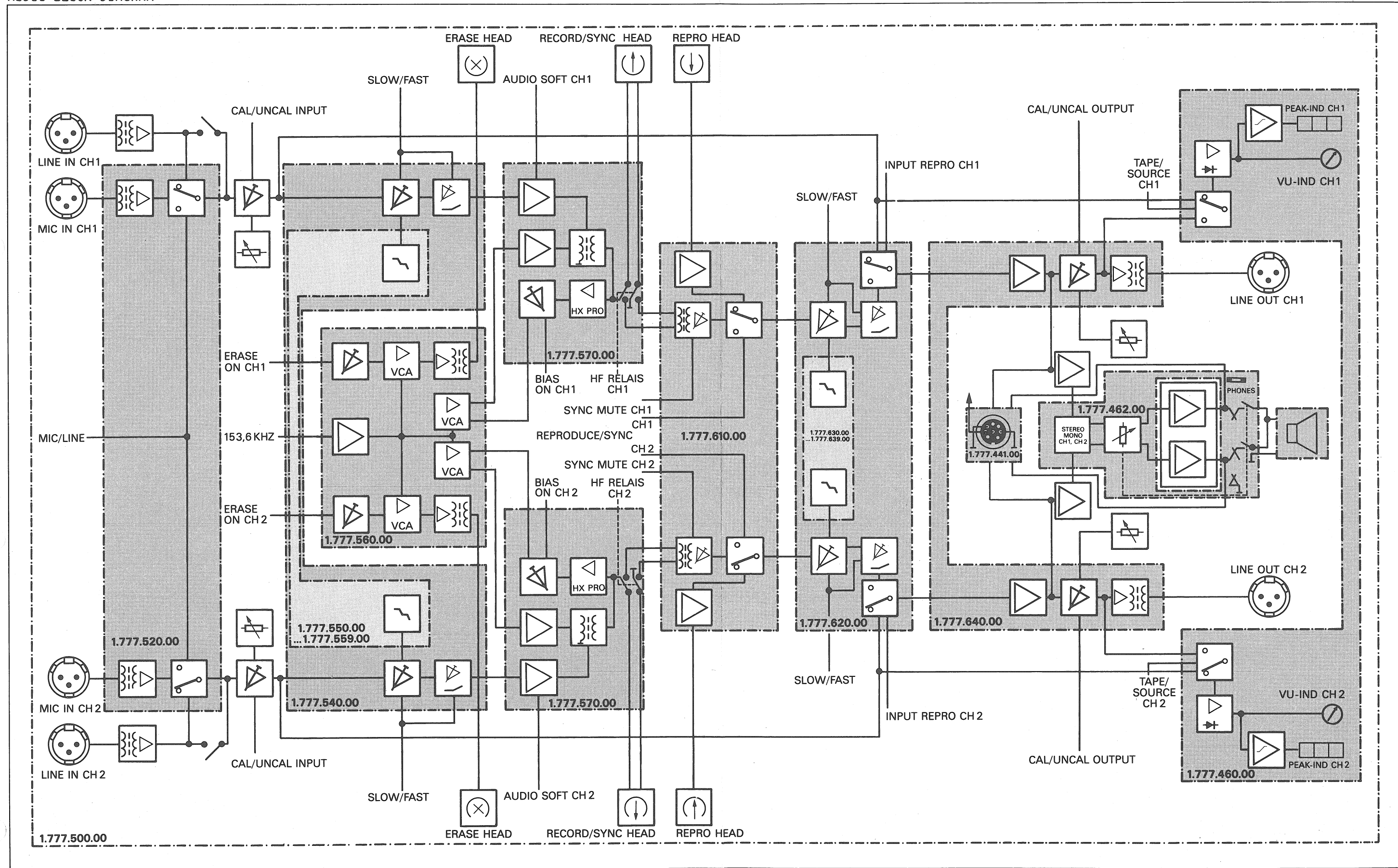
KEYBOARD 1.777.451.00



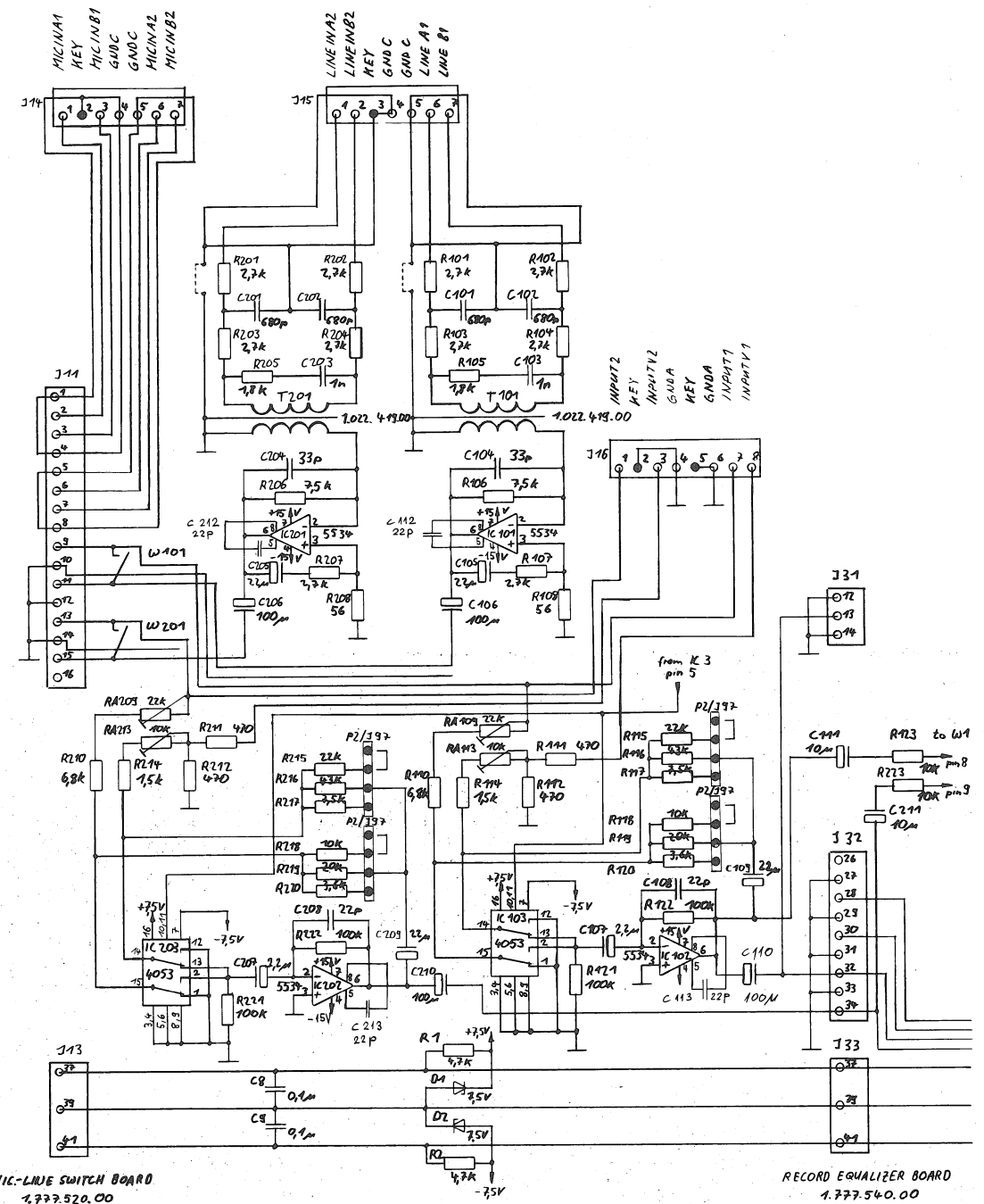
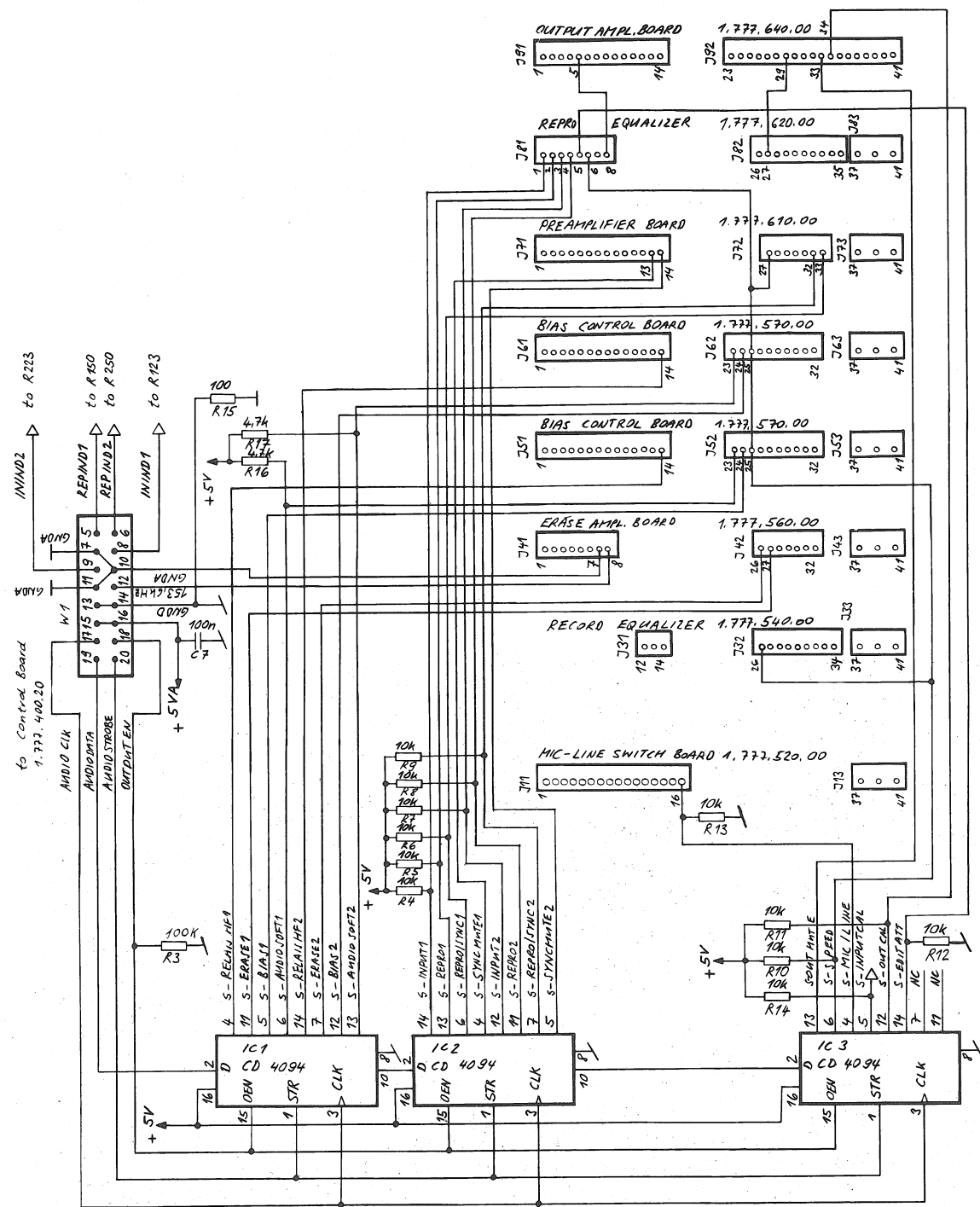
IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.						
C..0004	59-06-5103	.01 U	5%	63V + PETP		(00) DL-0027	50-04-2500	MV 5352			GI	Q..0013	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT	R..0078	57-11-4151	150	2%	0207	MF	
C..0005	59-06-5103	.01 U	5%	63V + PETP		DL-0028	50-04-2114	MV 5152			GI	Q..0014	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT	R..0079	57-11-4151	150	2%	0207	MF	
C..0009	59-22-3221	220 U	-20%	10V + EL		(00) DL-0029	50-04-2114	MV 5152			GI	Q..0015	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT	R..0080	57-11-4151	150	2%	0207	MF	
C..0010	59-06-0104	.1 U	10%	63V + PETP		DL-0029	50-04-2500	MV 5352			GI	Q..0016	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT	R..0081	57-11-4151	150	2%	0207	MF	
C..0011	59-22-3221	220 U	-20%	10V + EL		(00) DL-0030	50-04-2114	MV 5152			GI	Q..0018	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT	R..0082	57-11-4151	150	2%	0207	MF	
(00) DL-0011	50-04-2114		MV 5152		GI	DL-0030	50-04-2500	MV 5352			GI	Q..0019	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT	R..0083	57-11-4151	150	2%	0207	MF	
(00) DL-0012	50-04-2114		MV 5152		GI	P..0001	53-03-0228	60 pcs			St	R..0042	57-11-4103	10 K	2%	0207	MF	R..0084	57-11-4151	150	2%	0207	MF
(00) DL-0013	50-04-2500		MV 5352		GI	P..0002	54-01-0265	8 POL. CASING			St	R..0043	57-11-4820	82	2%	0207	MF	R..0085	57-11-4151	150	2%	0207	MF
(00) DL-0014	50-04-2114		MV 5152		GI	P..0003	54-01-0280	4 POL. CASING			St	R..0044	57-11-4820	82	2%	0207	MF	R..0086	57-11-4151	150	2%	0207	MF
(00) DL-0015	50-04-2500		MV 5352		GI	IC-0010	50-07-0010	MC 14499MC	+A	Not		R..0045	57-11-4820	82	2%	0207	MF	R..0087	57-11-4151	150	2%	0207	MF
(00) DL-0016	50-04-2114		MV 5152		GI	IC-0012	50-07-0018	MC 14094 BCP. HEF 4094BP	+A	Not		R..0046	57-11-4820	82	2%	0207	MF	R..0088	57-11-4151	150	2%	0207	MF
(00) DL-0017	50-04-2114		MV 5152		GI	IC-0013	50-11-0147	MM 5484 N	+A	Not		R..0047	57-11-4820	82	2%	0207	MF	R..0089	57-11-4151	150	2%	0207	MF
(00) DL-0018	50-04-2500		MV 5352		GI	IC-0014	73-01-0150	MAN 3980A		NS		R..0048	57-11-4820	82	2%	0207	MF	R..0090	57-11-4151	150	2%	0207	MF
(00) DL-0019	50-04-2114		MV 5152		GI	IC-0015	73-01-0150	MAN 3980A		GI		R..0049	57-11-4820	82	2%	0207	MF	R..0091	57-11-4151	150	2%	0207	MF
(00) DL-0020	50-04-2114		MV 5152		GI	IC-0016	73-01-0150	MAN 3980A		GI		R..0050	57-11-4820	82	2%	0207	MF	R..0092	57-11-4223	22 K	2%	0207	MF
(00) DL-0021	50-04-2115		MV 5152		GI	IC-0017	73-01-0150	MAN 3980A		GI		R..0051	57-11-4820	82	2%	0207	MF	R..0093	57-11-4223	22 K	2%	0207	MF
(00) DL-0022	50-04-2114		MV 5152		GI	IC-0018	73-01-0150	MAN 3980A		GI		R..0052	57-11-4820	82	2%	0207	MF	R..0094	57-11-4223	22 K	2%	0207	MF
(00) DL-0023	50-04-2114		MV 5152		GI	IC-0019	73-01-0150	MAN 3980A		GI		R..0053	57-11-4820	82	2%	0207	MF	R..0095	57-11-4223	22 K	2%	0207	MF
(00) DL-0024	50-04-2114		MV 5152		GI	MP-0001	1-777-450-12	KEYBOARD PCB		St		R..0054	57-11-4820	82	2%	0207	MF	R..0096	57-11-4223	22 K	2%	0207	MF
(00) DL-0025	50-04-2114		MV 5152		GI	MP-0002	1-777-450-04			St		R..0055	57-11-4820	82	2%	0207	MF	R..0097	57-11-4223	22 K	2%	0207	MF
(00) DL-0026	50-04-2500		MV 5352		GI	MP-0003	1-777-450-01	3 pcs		St		R..0056	57-11-4820	82	2%	0207	MF	RA-0004	1-777-450-02	10 K			St
(00) DL-0027	50-04-2114		MV 5152		GI	MP-0004	1-777-470-04	15 pcs		St		R..0057	57-11-4820	82	2%	0207	MF	RA-0006	1-777-450-03	50 K			St
(00) DL-0028	50-04-2114		MV 5152		GI	J..0005	54-01-0262	8 POL. STRIP CIS		AMP		R..0058	57-11-4153	15 K	2%	0207	MF	RA-0104	1-777-450-02	10 K			St
(00) DL-0029	50-04-2114		MV 5152		GI	J..0006	54-01-0262	8 POL. STRIP CIS		AMP		R..0059	57-11-4153	15 K	2%	0207	MF	RZ-0008	57-88-4103	8*10K			St
(00) DL-0030	50-04-2500		MV 5352		GI	Q..0007	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT		R..0060	57-11-4153	15 K	2%	0207	MF	W..0001	1-777-450-93			WL=KEYBOARD	St
(00) DL-0031	50-04-2114		MV 5152		GI	Q..0008	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT		R..0061	57-11-4153	15 K	2%	0207	MF	W..0002	1-777-450-94			KL=KEYBOARD	St
(00) DL-0032	50-04-2114		MV 5152		GI	Q..0009	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT		R..0062	57-11-4153	15 K	2%	0207	MF						
(00) DL-0033	50-04-2500		MV 5352		GI	Q..0010	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT		R..0063	57-11-4153	15 K	2%	0207	MF						
(00) DL-0034	50-04-2114		MV 5152		GI	Q..0011	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT		R..0064	57-11-4153	15 K	2%	0207	MF						
(00) DL-0035	50-04-2114		MV 5152		GI	Q..0012	50-03-0436	BC 547 B+BC 237 B		Siemens-ITT		R..0065	57-11-4103	10 K	2%	0207	MF						
(00) DL-0036	50-04-2500		MV 5352		GI							R..0066	57-11-4103	10 K	2%	0207	MF						
(00) DL-0037	50-04-2114		MV 5152		GI							R..0067	57-11-4103	10 K	2%	0207	MF						
(00) DL-0038	50-04-2114		MV 5152		GI							R..0068	57-11-4103	10 K	2%	0207	MF						
(00) DL-0039	50-04-2114		MV 5152		GI							R..0069	57-11-4103	10 K	2%	0207	MF						
(00) DL-0040	50-04-2114		MV 5152		GI							R..0070	57-11-4103	10 K	2%	0207	MF						
(00) DL-0041	50-04-2114		MV 5152		GI							R..0076	57-11-4151	150	2%	0207	MF						
(00) DL-0042	50-04-2114		MV 5152		GI							R..0077	57-11-4151	150	2%	0207	MF						

MANUFACTURER: Mo=Motorola, GI=General Instruments, Ph=Philips  
 Si=Siemens, MP=AMP Incorporated, S=Studer,  
 TI=Texas Instruments, ITT=Intermetall,  
 NS=National Semiconductors.

AUDIO BLOCK DIAGRAM



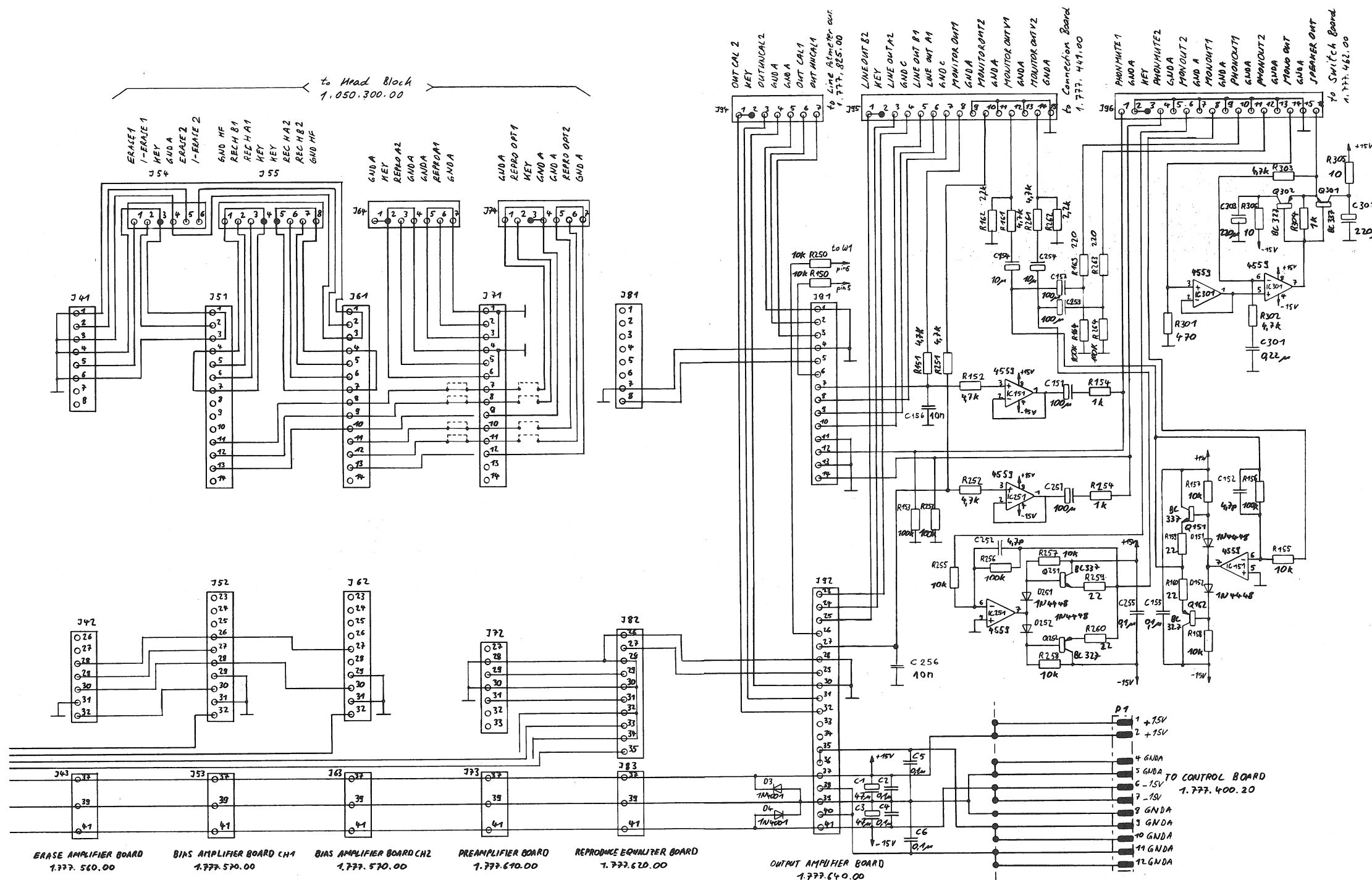
AUDIO BASIS BOARD 1.777.500.81



07.1.88	3 JLE								
C270		PAGE 1 OF 4							
STUDER	AUDIO BASIS BOARD	"ESE" SC	1.777.500.81						

07.1.88	3 JLE								
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STUDER	AUDIO BASIS BOARD	"ESE" SC	1.777.500.81						

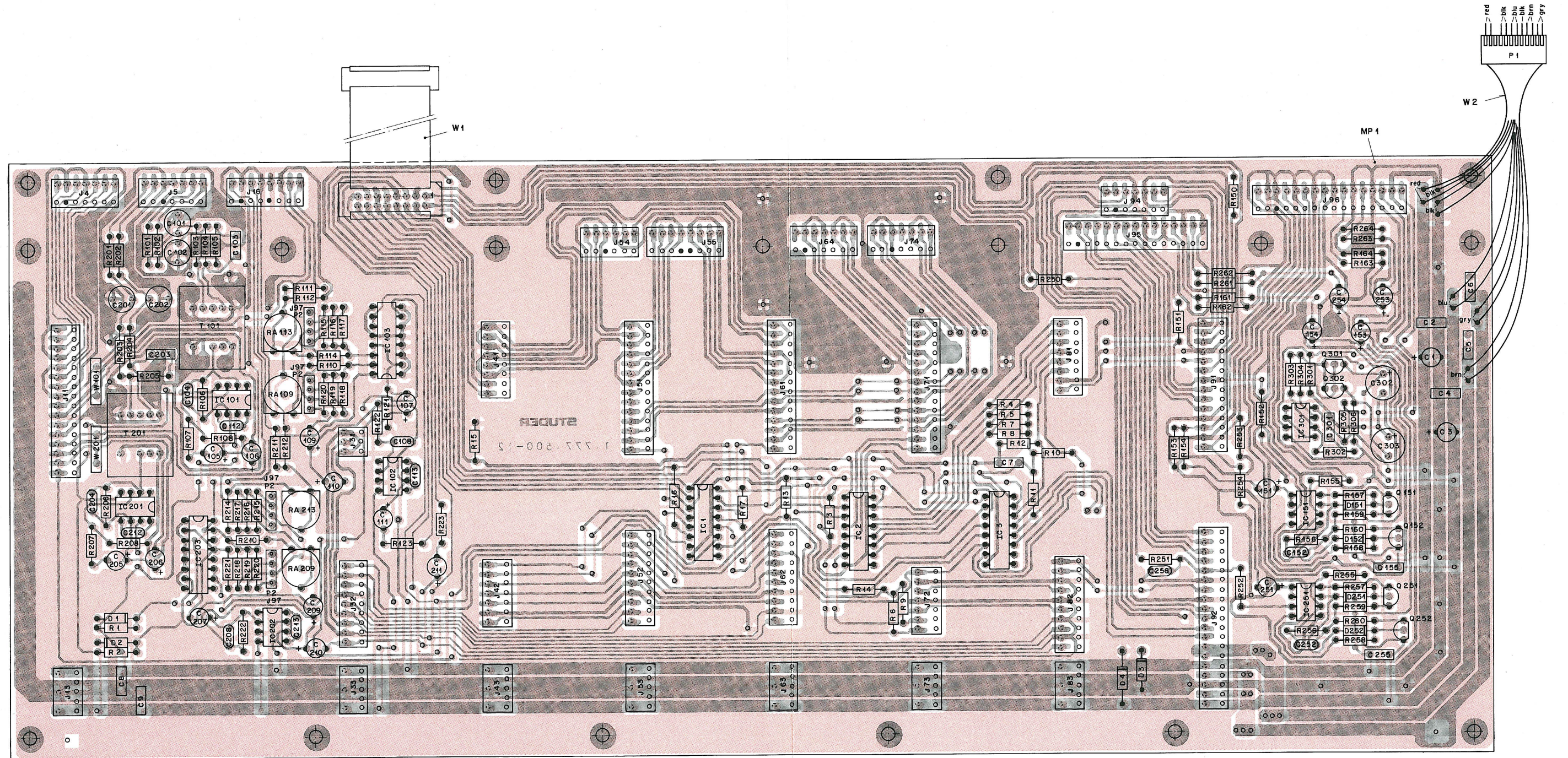
AUDIO BASIS BOARD 1.777.500.81



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Table with columns: IND., POS.NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. It lists various electronic components and their specifications for the audio basis board.

STUDER (00) 88/01/07 AUDIO-BASIS-BOARD A 1.777.500.81 PAGE 1

Table with columns: IND., POS.NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. Continuation of component list for the audio basis board.

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Table with columns: IND., POS.NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. Continuation of component list for the audio basis board.

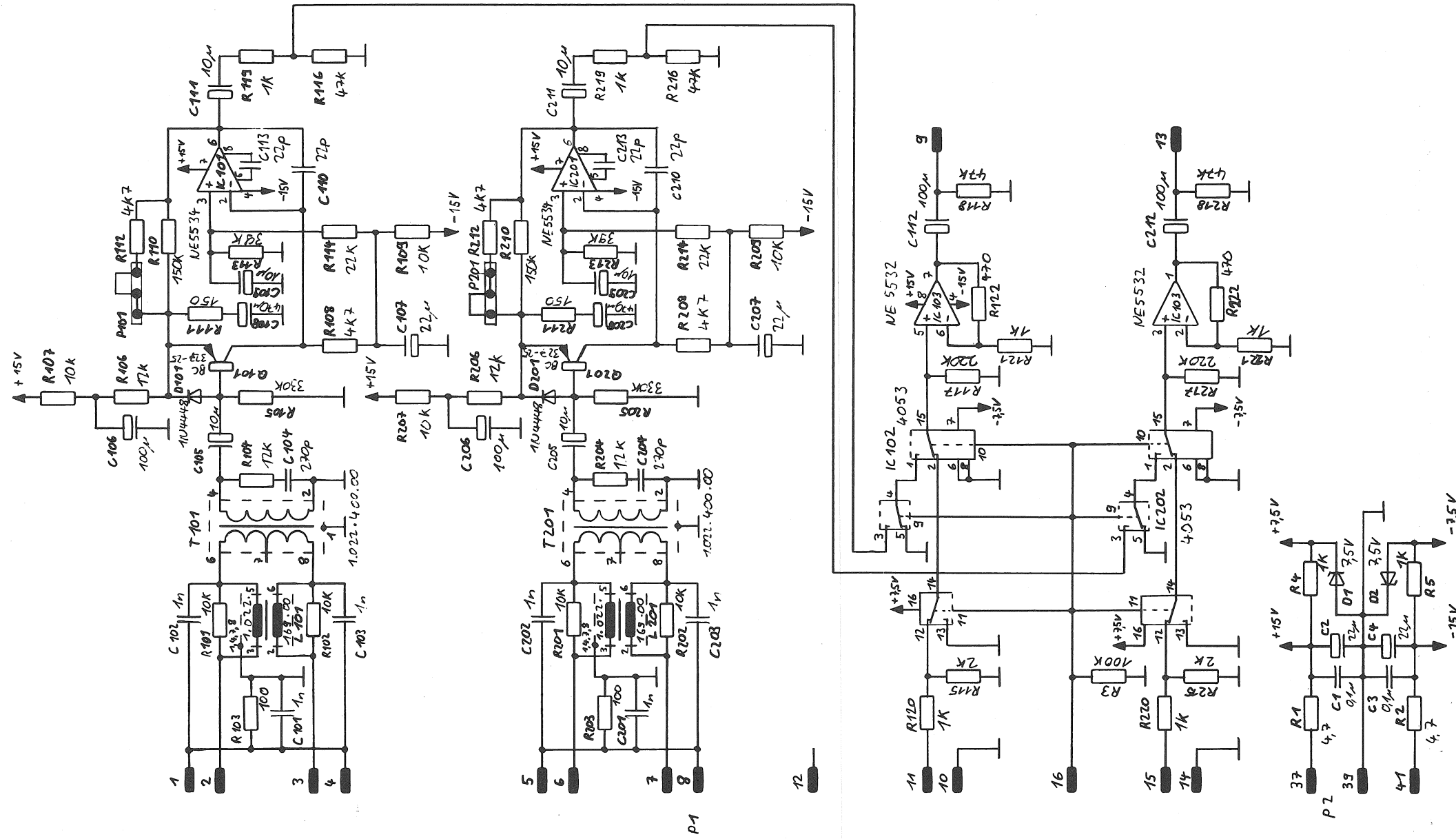
STUDER (00) 88/01/07 AUDIO-BASIS-BOARD A 1.777.500.81 PAGE 3

Table with columns: IND., POS.NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. Continuation of component list for the audio basis board, including manufacturer details.

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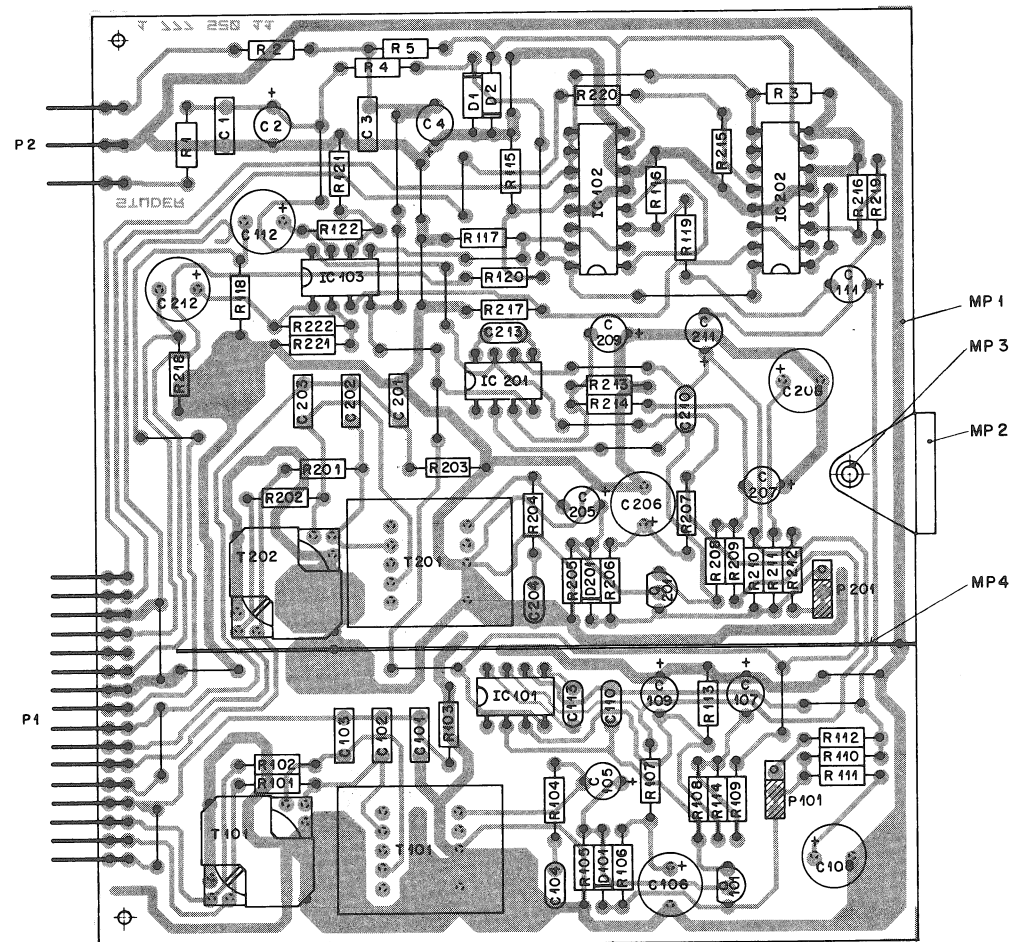
MIC-LINE-SWITCH BOARD 1.777.520.00



4.5.87	C270	MIC-LINE SWITCH BOARD	„ESE“ SC	1.777.520.00
			PAGE 1	OF 1



MIC-LINE-SWITCH BOARD 1.777.520.00



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0001		59.06.0104	.1 U	10% 63V + PETP		T..0101		1.022.400.00		INPUT TRANSFORMATOR 1:4	
C..0002		59.22.5220	22 U	-20% 25V + EL		T..0201		1.022.400.00		INPUT TRANSFORMATOR 1:4	
C..0003		59.06.0104	.1 U	10% 63V + PETP							
C..0004		59.22.5220	22 U	-20% 25V + EL							
C..0101		59.06.0102	1000 P	10% 63V + PETP							
C..0102		59.06.0102	1000 P	10% 63V + PETP							
C..0103		59.06.0102	1000 P	10% 63V + PETP							
C..0104		59.34.4271	270 P	5% N750 + CER							
C..0105		59.22.6100	10 U	-20% 35V + EL							
C..0106		59.22.5101	100 U	-20% 25V + EL							
C..0107		59.22.5220	22 U	-20% 25V + EL							
C..0108		59.22.2471	470 U	-20% 6.3V + EL							
C..0109		59.22.6100	10 U	-20% 35V + EL							
C..0110		59.34.2220	22 P	5% N150 + CER							
C..0111		59.22.6100	10 U	-20% 35V + EL							
C..0112		59.22.5101	100 U	-20% 25V + EL							
C..0113		59.34.2220	22 P	5% N150 + CER							
C..0201		59.06.0102	1000 P	10% 63V + PETP							
C..0202		59.06.0102	1000 P	10% 63V + PETP							
C..0203		59.06.0102	1000 P	10% 63V + PETP							
C..0204		59.34.4271	270 P	5% N750 + CER							
C..0205		59.22.6100	10 U	-20% 35V + EL							
C..0206		59.22.5101	100 U	-20% 25V + EL							
C..0207		59.22.5220	22 U	-20% 25V + EL							
C..0208		59.22.2471	470 U	-20% 6.3V + EL							
C..0209		59.22.6100	10 U	-20% 35V + EL							
C..0210		59.34.2220	22 P	5% N150 + CER							
C..0211		59.22.6100	10 U	-20% 35V + EL							
C..0212		59.22.5101	100 U	-20% 25V + EL							
C..0213		59.34.2220	22 P	5% N150 + CER							
D..0001		50.04.1103	7.5 V	5% .40W + Z							
D..0002		50.04.1103	7.5 V	5% .40W + Z							
D..0101		50.04.0125	1N 4448	SI							
D..0201		50.04.0125	1N 4448	SI							
IC..0101		50.05.0243	NE 5534N	NE 5534P +OPAMP							

MANUFACTURER: M=Motorola; NS=National Semiconductors; Ph=Philips; Sig=Signetics; St=Studer; TI=Texas Instruments.

ORIG 86/09/15

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IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
IC..0102		50.07.0015		MC 14 053BCP+CD 4053 BCN+A	
IC..0103		50.09.0105	NE 5532N	NE 5532P +OPAMP	
IC..0201		50.05.0243	NE 5534N	NE 5534P +OPAMP	
IC..0202		50.07.0015		MC 14 053BCP+CD 4053 BCN+A	
J..0101		54.01.0021		JUMPER	
J..0201		54.01.0021		JUMPER	
L..0101		1.022.169.00		HF ASYM. COIL	
L..0201		1.022.169.00		HF ASYM. COIL	
MP..0001		1.777.520.11		MIC-LINE SWITCH BOARD	
MP..0002		1.010.001.33		GRIP	
MP..0003		28.21.1360	02.25#5	TURBULARRIVET	
MP..0004		1.777.520.01		SCREEN-SHEET-METAL	
P..0001		54.01.0276	16 POL.	STRIP CIS ANGLE	
P..0002		54.01.0469	3 POL.	STRIP CIS ANGLE	
P..0101		54.01.0020	3 pcs	PIN H=5.8/3.4 (+.63#-.63)	
P..0201		54.01.0020	3 pcs	PIN H=5.8/3.4 (+.63#-.63)	
Q..0101		50.03.0351	BC 327-25		
Q..0201		50.03.0351	BC 327-25		
R..0001		57.11.4479	4.7	2% 0207 + MF	
R..0002		57.11.4479	4.7	2% 0207 + MF	
R..0003		57.11.4104	100 K	2% 0207 + MF	
R..0004		57.11.4102	1 K	2% 0207 + MF	
R..0005		57.11.4102	1 K	2% 0207 + MF	
R..0101		57.11.4103	10 K	2% 0207 + MF	
R..0102		57.11.4103	10 K	2% 0207 + MF	
R..0103		57.11.4101	100	2% 0207 + MF	
R..0104		57.11.4123	12 K	2% 0207 + MF	
R..0105		57.11.4334	330 K	2% 0207 + MF	
R..0106		57.11.4123	12 K	2% 0207 + MF	
R..0107		57.11.4103	10 K	2% 0207 + MF	
R..0108		57.11.4472	4.7 K	2% 0207 + MF	

STUDER (00) 86/09/15 MIC-LINE-SWITCH BOARD 1.777.520.00 PAGE 2

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R..0109		57.11.4103	10 K	2% 0207 + MF	
R..0110		57.11.3114	110 K	1% 0207 + MF	
R..0111		57.11.4102	1 K	2% 0207 + MF	
R..0112		57.11.3242	2.4 K	1% 0207 + MF	
R..0113		57.11.4393	39 K	2% 0207 + MF	
R..0114		57.11.4223	22 K	2% 0207 + MF	
R..0115		57.11.3202	2 K	1% 0207 + MF	
R..0116		57.11.4473	47 K	2% 0207 + MF	
R..0117		57.11.4224	220 K	2% 0207 + MF	
R..0118		57.11.4473	47 K	2% 0207 + MF	
R..0119		57.11.4102	1 K	2% 0207 + MF	
R..0120		57.11.4102	1 K	2% 0207 + MF	
R..0121		57.11.4102	1 K	2% 0207 + MF	
R..0122		57.11.4471	470	2% 0207 + MF	
R..0201		57.11.4103	10 K	2% 0207 + MF	
R..0202		57.11.4103	10 K	2% 0207 + MF	
R..0203		57.11.4101	100	2% 0207 + MF	
R..0204		57.11.4123	12 K	2% 0207 + MF	
R..0205		57.11.4334	330 K	2% 0207 + MF	
R..0206		57.11.4123	12 K	2% 0207 + MF	
R..0207		57.11.4103	10 K	2% 0207 + MF	
R..0208		57.11.4472	4.7 K	2% 0207 + MF	
R..0209		57.11.4103	10 K	2% 0207 + MF	
R..0210		57.11.3114	110 K	1% 0207 + MF	
R..0211		57.11.4102	1 K	2% 0207 + MF	
R..0212		57.11.3242	2.4 K	1% 0207 + MF	
R..0213		57.11.4393	39 K	2% 0207 + MF	
R..0214		57.11.4223	22 K	2% 0207 + MF	
R..0215		57.11.3202	2 K	1% 0207 + MF	
R..0216		57.11.4473	47 K	2% 0207 + MF	
R..0217		57.11.4224	220 K	2% 0207 + MF	
R..0218		57.11.4473	47 K	2% 0207 + MF	
R..0219		57.11.4102	1 K	2% 0207 + MF	
R..0220		57.11.4102	1 K	2% 0207 + MF	
R..0221		57.11.4102	1 K	2% 0207 + MF	
R..0222		57.11.4471	470	2% 0207 + MF	

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## Einbauanleitung für die Mikrofonoption C270

Bausatz: 1 Stk. Mikrofonoption Print 1.777.520.00  
2 Stk. Führungsschienen 1.088.300.07

Hilfsmittel: Sechskantschlüssel No.2,5  
Kreuzschraubendreher No.2

### Anleitung:

- Gerät von seiner Stromzufuhr trennen.
- Gehäuse entfernen durch Lösen der 8 seitlichen IS-Schrauben und der 4 Fussleisten-Befestigungsschrauben.
- Das VU-Meter Panel nach Lösen der 4 IS-Schrauben nach oben klappen.
- Die 2 Drahtbrücken W101 und W201 (A) auf dem AUDIO BASIS PRINT öffnen. Freies Ende nach unten drücken und seitlich aus der Verankerung ausfahren.
- Die 2 Führungsschienen in die vorbereiteten Montagelöcher, ganz links, einsetzen und einschnappen lassen.
- Auf Print 1.777.520.00 mit P101 (CH1) und P201 (CH2) (B) die Eingangsempfindlichkeit LOW (-70 bis -36 dBu) oder HIGH (-38 bis -8 dBu) wählen.
- Print 1.777.520.00 in die Steckerleisten J11 und J13 (C) des AUDIO BASIS PRINTS 1.777.500.81 einsetzen.
- Auf dem CONTROL PRINT 1.777.400.22 Schalter 6 des DIL-Schalters SZ1 (D) auf Position ON stellen (siehe Fig. 2).
- VU-Meter Panel schließen, Gehäuse montieren.

Hinweis: Nach diesem Umbau sind keine Einstellarbeiten notwendig.  
Für die Anwendung bitte Bedienungsanleitung konsultieren.

## Installation Instructions for the Mic Option Board C270

Kit: 1 Mic Option Board 1.777.520.00  
2 Plastic guide rails 1.088.300.07

Tools: Allen key no.2,5  
Cross head screw driver no.2

### Instructions:

- Disconnect the unit from its power supply.
- Remove the housing after unscrewing the 8 allen key screws to be found 4 on each side and the units feet by loosening 2 cross head screws each.
- Fold up the VU meter panel after loosening the 4 corresponding allen key screws.
- Disconnect the 2 wire bridges W101 and W201 (A) to be found on the AUDIO BASIS BOARD. Push the free end downwards and to the side to loosen it from its contact point.
- Install the two plastic guide rails in their foreseen place (all to the left). Make sure that rails snap in properly.
- Select with P101 (CH1) and P201 (CH2) (B) on PCB 1.777.520.00 the wanted input sensitivity, LOW (-70 to -36 dBu) or HIGH (-38 to -8 dBu).
- Insert board 1.777.520.00 into the connectors J11 and J13 (C) to be found on the AUDIO BASIS BOARD 1.777.500.81.
- Set switch 6 of the DIL switch SZ1 (D) to its ON position, to be found on the CONTROL BOARD 1.777.400.22 (see fig. 2).
- Reinstall VU meter panel and housing.

Attention: After this installation no realignment is needed.  
To operate please consult the operating manual.

## Instruction de montage pour l'option microphone C270.

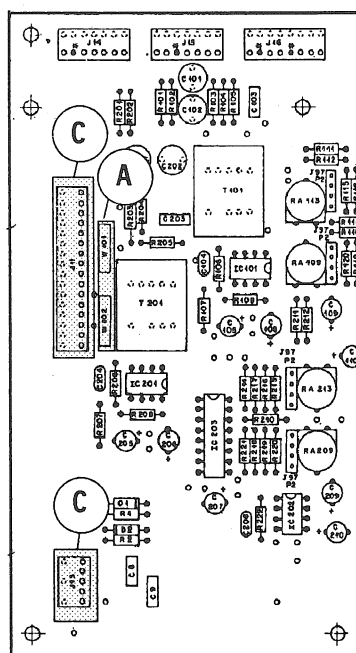
Contenu: 1 carte option microphone 1.777.520.00  
2 glissières de guidage 1.088.300.07

Outillage: clé 6-pans No.2.5  
Tourne-vis à croix No.2

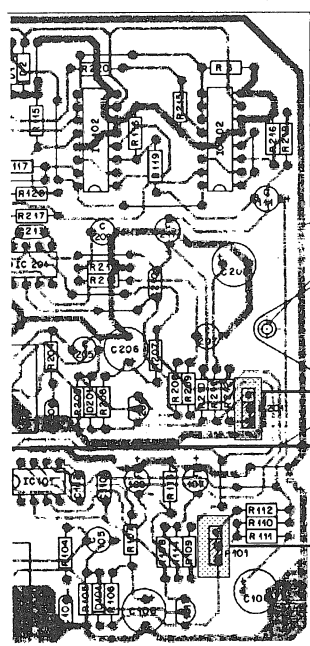
### Instructions:

- retirer la fiche secteur.
- enlever le boîtier après avoir retiré les 8 vis 6-pans latérales ainsi que les 4 vis des pieds.
- ouvrir vers le haut le panneau des VU-mètres après avoir retiré les 4 vis 6-pans.
- ouvrir les 2 contacts W101 et W201 (A) du AUDIO BASIS PRINT: peser sur l'extrémité libre et dégager le contact sur le côté.
- introduire les 2 glissières dans les trous prévus à cet effet, tout à gauche des cartes audio.
- Sur le circuit 1.777.520.00 choisir la sensibilité d'entrée à l'aide de P101 (CH1) et de P201 (CH2) (B). LOW (-70 à -36 dBu) ou HIGH (-38 à -8 dBu).
- introduire la carte 1.777.520.00 dans les contacts J11 et J13 (C) de la carte AUDIO BASIS PRINT 1.777.500.81.
- mettre le 6e contact de l'interrupteur DIL SZ1 (D) en position ON, sur la carte CONTROL PRINT 1.777.400.22.
- refermer le panneau VU-mètres et le boîtier.

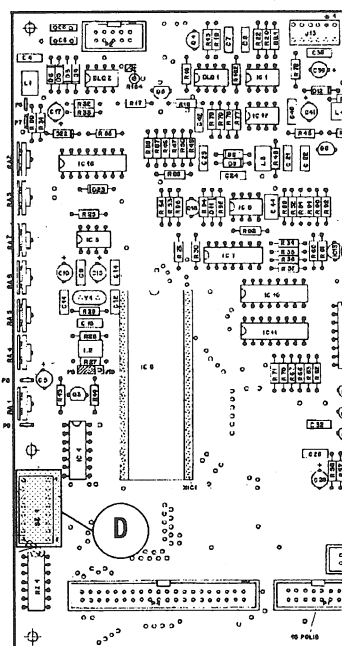
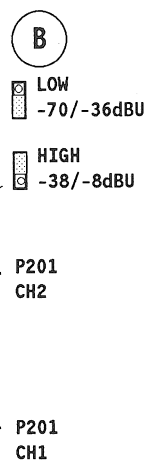
Remarques: - Cette modification ne nécessite pas de réglage de l'appareil. Consulter aussi le mode d'emploi.



1.777.500.81

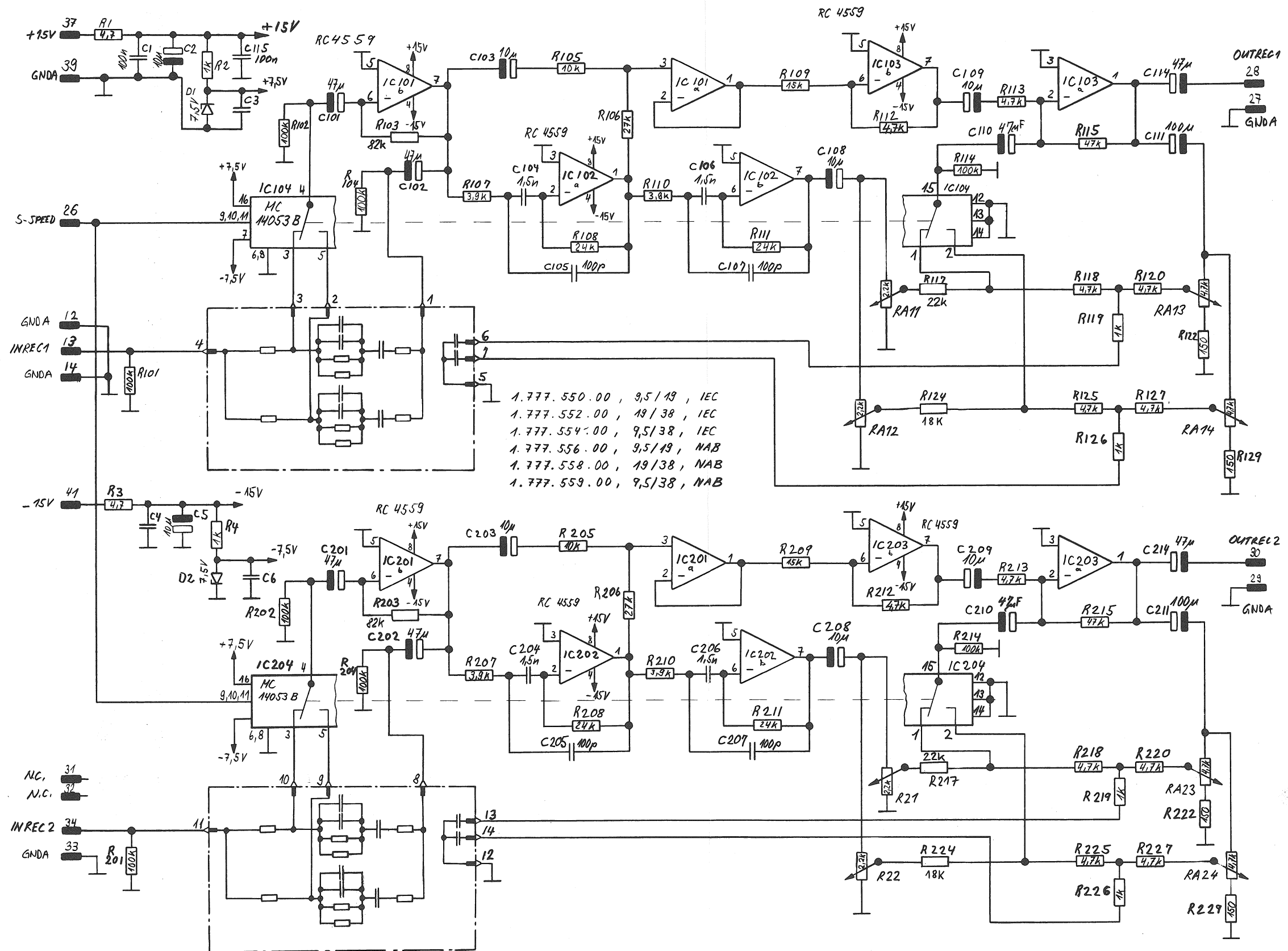


1.777.520.00



1.777.400.22

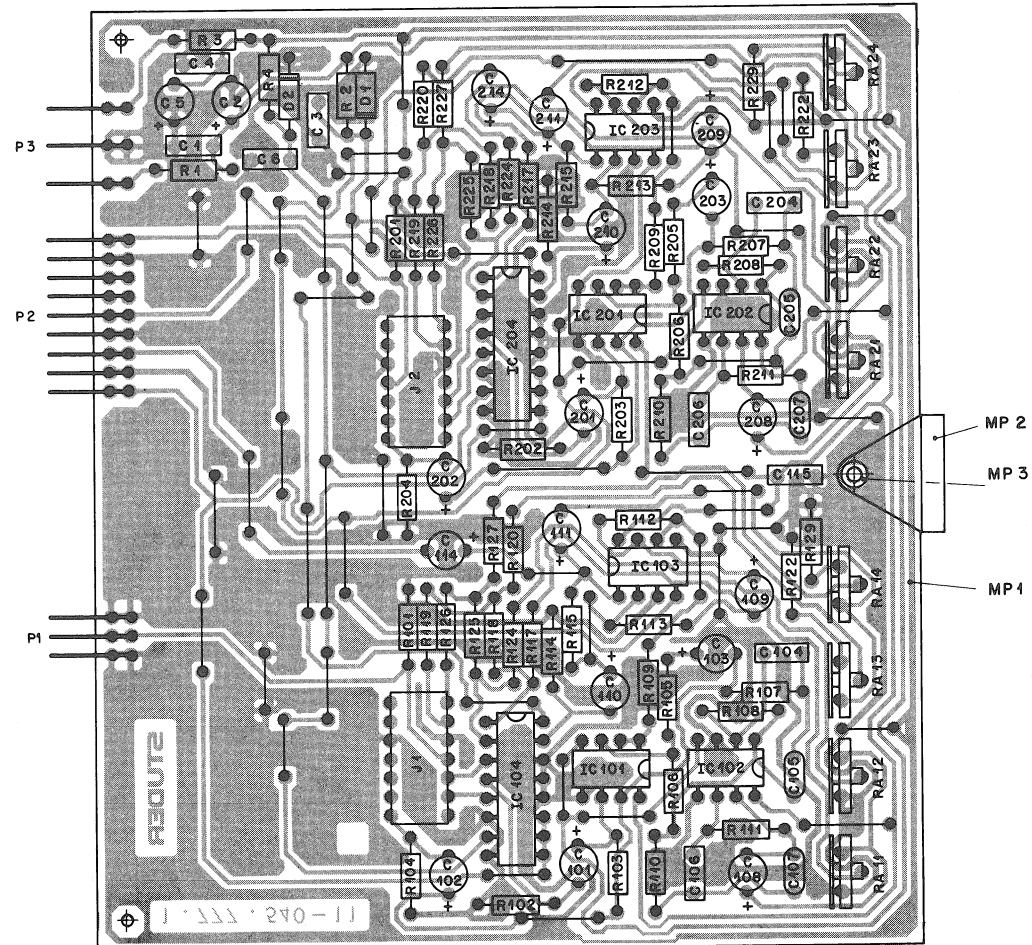
RECORD EQUALIZER BOARD 1.777.540.00



018.1.87	12.8.87 J. M. FPL	03.02.88	PAGE 1 OF 1
C270			"ESE" SC
STUDER			RECORD EQUALIZER
1.777.540.00			

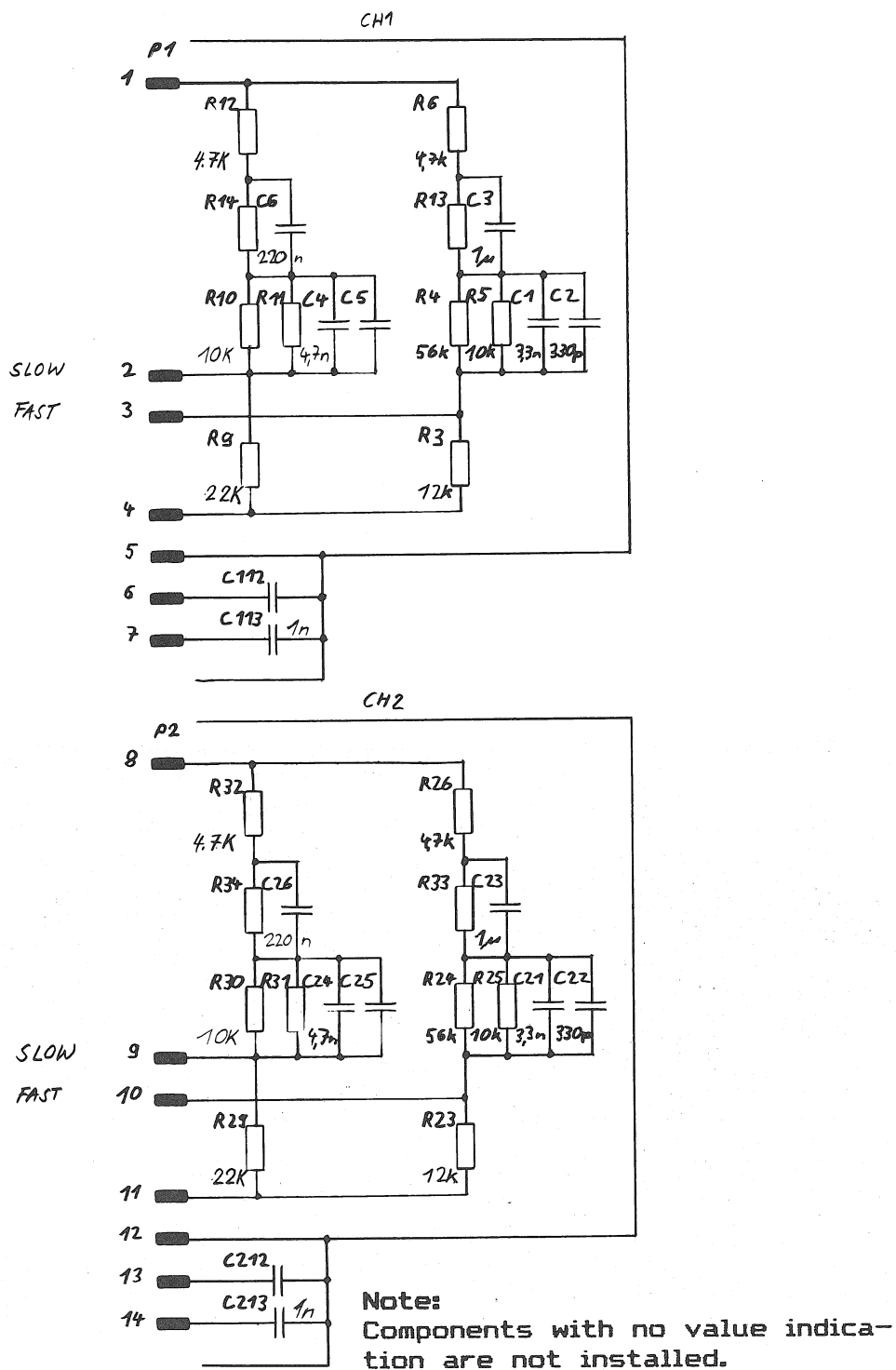


RECORD EQUALIZER BOARD 1.777.540.00



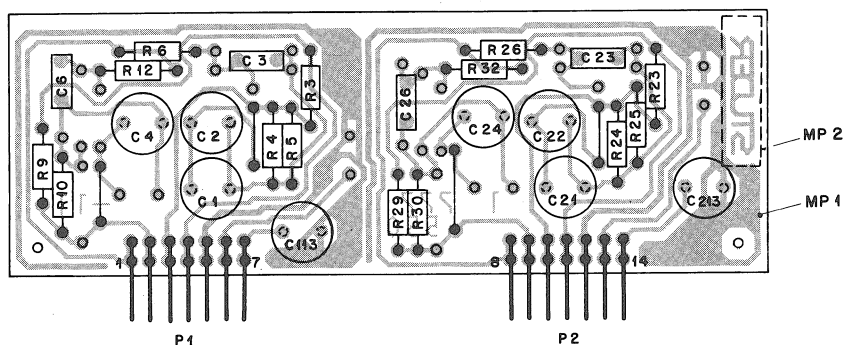
IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C..0001	59.06.0104	+1 U	10%, 63V + PETP			IC.0102	50.09.0107		RC 4559 NB, UPC 4559	RavNEC		R..0115	57.11.4473	47 K	2%, 0207 + MF			R..0229	57.11.4151	150	2%, 0207 + MF	
	C..0002	59.22.6100	10 U	-20%, 40V + EL			IC.0103	50.09.0107		RC 4559 NB, UPC 4559	RavNEC		R..0117	57.11.4223	22 K	2%, 0207 + MF			RA.0011	58.02.4222	2.2 K	20%, +1 W + PCSCH	
	C..0003			not connected			IC.0104	50.09.0107		MC 14 053BCP4D 4053 BCN+A	Not.NS		R..0118	57.11.4472	4.7 K	2%, 0207 + MF			RA.0012	58.02.4222	2.2 K	20%, +1 W + PCSCH	
(00)	C..0004	59.06.0104	+1 U	10%, 63V + PETP			IC.0201	50.09.0107		RC 4559 NB, UPC 4559	RavNEC		R..0119	57.11.4102	1 K	2%, 0207 + MF			RA.0013	58.02.4472	4.7 K	20%, +1 W + PCSCH	
(01)	C..0004			not connected			IC.0202	50.09.0107		RC 4559 NB, UPC 4559	RavNEC		R..0120	57.11.4472	4.7 K	2%, 0207 + MF			RA.0014	58.02.4472	4.7 K	20%, +1 W + PCSCH	
	C..0005	59.22.6100	10 U	-20%, 40V + EL			IC.0203	50.09.0107		RC 4559 NB, UPC 4559	RavNEC		R..0122	57.11.4151	150	2%, 0207 + MF			RA.0021	58.02.4222	2.2 K	20%, +1 W + PCSCH	
	C..0006			not connected			IC.0204	50.07.0015		MC 14 053BCP4D 4053 BCN+A	Not.NS		R..0124	57.11.4223	22 K	2%, 0207 + MF			RA.0022	58.02.4222	2.2 K	20%, +1 W + PCSCH	
	C..0101	59.22.3470	47 U	-20%, 10V + EL			J..0001	54.01.0244	7 POL+	STRIP CIS PARLEL	AMP		R..0124	57.11.4183	18 K	2%, 0207 + MF			RA.0023	58.02.4472	4.7 K	20%, +1 W + PCSCH	
	C..0102	59.22.3470	47 U	-20%, 10V + EL			J..0002	54.01.0244	7 POL+	STRIP CIS PARLEL	AMP		R..0125	57.11.4472	4.7 K	2%, 0207 + MF			RA.0024	58.02.4472	4.7 K	20%, +1 W + PCSCH	
	C..0103	59.22.6100	10 U	-20%, 40V + EL			MP.0001	1.777.540.11		RECORD EQUALIZER PCB	St		R..0127	57.11.4472	4.7 K	2%, 0207 + MF							
	C..0104	59.06.5152	1500 P	5%, 63V + PETP			MP.0002	1.010.001.33		TUBULARRIVET	St		R..0129	57.11.4151	150	2%, 0207 + MF							
	C..0105	59.34.4101	100 P	5%, N750 + CER			MP.0003	28.21.1360	02.25e5				R..0201	57.11.4104	100 K	2%, 0207 + MF							
	C..0106	59.06.5152	1500 P	5%, 63V + PETP			P..0001	54.01.0227	3 POL+	STRIP CIS ANGLE	AMP		R..0202	57.11.4104	100 K	2%, 0207 + MF							
	C..0107	59.34.4101	100 P	5%, N750 + CER			P..0002	54.01.0220	9 POL+	STRIP CIS ANGLE	AMP		R..0203	57.11.4823	82 K	2%, 0207 + MF							
	C..0108	59.22.6100	10 U	-20%, 40V + EL			P..0003	54.01.0469	3 POL+	STRIP CIS ANGLE	AMP		R..0204	57.11.4104	100 K	2%, 0207 + MF							
	C..0109	59.22.6100	10 U	-20%, 40V + EL			R..0001	57.11.4479	4.7	2%, 0207 + MF			R..0205	57.11.4103	10 K	2%, 0207 + MF							
	C..0110	59.22.3470	47 U	-20%, 10V + EL			R..0002	57.11.4102	1 K	2%, 0207 + MF			R..0206	57.11.4273	27 K	2%, 0207 + MF							
	C..0111	59.22.3101	100 U	-20%, 10V + EL			R..0003	57.11.4479	4.7	2%, 0207 + MF			R..0207	57.11.4392	3.9 K	2%, 0207 + MF							
	C..0114	59.22.3470	47 U	-20%, 10V + EL			R..0004	57.11.4102	1 K	2%, 0207 + MF			R..0208	57.11.4392	3.9 K	2%, 0207 + MF							
	C..0115	59.06.0104	+1 U	10%, 63V + PETP			R..0004	57.11.4102	1 K	2%, 0207 + MF			R..0209	57.11.4153	150	2%, 0207 + MF							
	C..0201	59.22.3470	47 U	-20%, 10V + EL			R..0004	57.11.4102	1 K	2%, 0207 + MF			R..0210	57.11.4392	3.9 K	2%, 0207 + MF							
	C..0202	59.22.3470	47 U	-20%, 10V + EL			R..0004	57.11.4102	1 K	2%, 0207 + MF			R..0211	57.11.3243	24 K	1%, 0207 + MF							
	C..0203	59.22.6100	10 U	-20%, 40V + EL			R..0004	57.11.4102	1 K	2%, 0207 + MF			R..0212	57.11.4472	4.7 K	2%, 0207 + MF							
	C..0204	59.06.5152	1500 P	5%, 63V + PETP			R..0101	57.11.4104	100 K	2%, 0207 + MF			R..0213	57.11.4472	4.7 K	2%, 0207 + MF							
	C..0205	59.34.4101	100 P	5%, N750 + CER			R..0102	57.11.4104	100 K	2%, 0207 + MF			R..0214	57.11.4104	100 K	2%, 0207 + MF							
	C..0206	59.06.5152	1500 P	5%, 63V + PETP			R..0103	57.11.4823	82 K	2%, 0207 + MF			R..0215	57.11.4473	4.7 K	2%, 0207 + MF							
	C..0207	59.34.4101	100 P	5%, N750 + CER			R..0104	57.11.4104	100 K	2%, 0207 + MF			R..0217	57.11.4223	22 K	2%, 0207 + MF							
	C..0208	59.22.6100	10 U	-20%, 40V + EL			R..0105	57.11.4103	10 K	2%, 0207 + MF			R..0218	57.11.4472	4.7 K	2%, 0207 + MF							
	C..0209	59.22.6100	10 U	-20%, 40V + EL			R..0106	57.11.4273	27 K	2%, 0207 + MF			R..0219	57.11.4102	1 K	2%, 0207 + MF							
	C..0210	59.22.3470	47 U	-20%, 10V + EL			R..0107	57.11.4392	3.9 K	2%, 0207 + MF			R..0220	57.11.4472	4.7 K	2%, 0207 + MF							
	C..0211	59.22.3101	100 U	-20%, 10V + EL			R..0108	57.11.3243	24 K	1%, 0207 + MF			R..0222	57.11.4151	150	2%, 0207 + MF							
	C..0214	59.22.3470	47 U	-20%, 10V + EL			R..0109	57.11.4153	15 K	2%, 0207 + MF			R..0224	57.11.4223	22 K	2%, 0207 + MF							
	U..0001	50.04.1103	7.5 V	5%, +40W + Z	ITT+Not		R..0110	57.11.4392	3.9 K	2%, 0207 + MF			R..0225	57.11.4183	18 K	2%, 0207 + MF							
	U..0002	50.04.1103	7.5 V	5%, +40W + Z	ITT+Not		R..0111	57.11.3243	24 K	1%, 0207 + MF			R..0226	57.11.4102	1 K	2%, 0207 + MF							
	IC.0101	50.09.0107		RC 4559 NB, UPC 4559	RavNEC		R..0112	57.11.4472	4.7 K	2%, 0207 + MF			R..0227	57.11.4472	4.7 K	2%, 0207 + MF							
							R..0113	57.11.4472	4.7 K	2%, 0207 + MF													
							R..0114	57.11.4104	100 K	2%, 0207 + MF													

RECORD SPEED BOARD 9.5/19 IEC 1.777.550.00



① 232.87 b F.A.	① 15.09.87 C.F. univ. ② 03.02.88	○ ..	○ ..
C270		PAGE 1 OF 1	
STUDER	RECORD SPEED B. 9.5/19 IEC (3.75/7.5)	SC	1.777.550.00

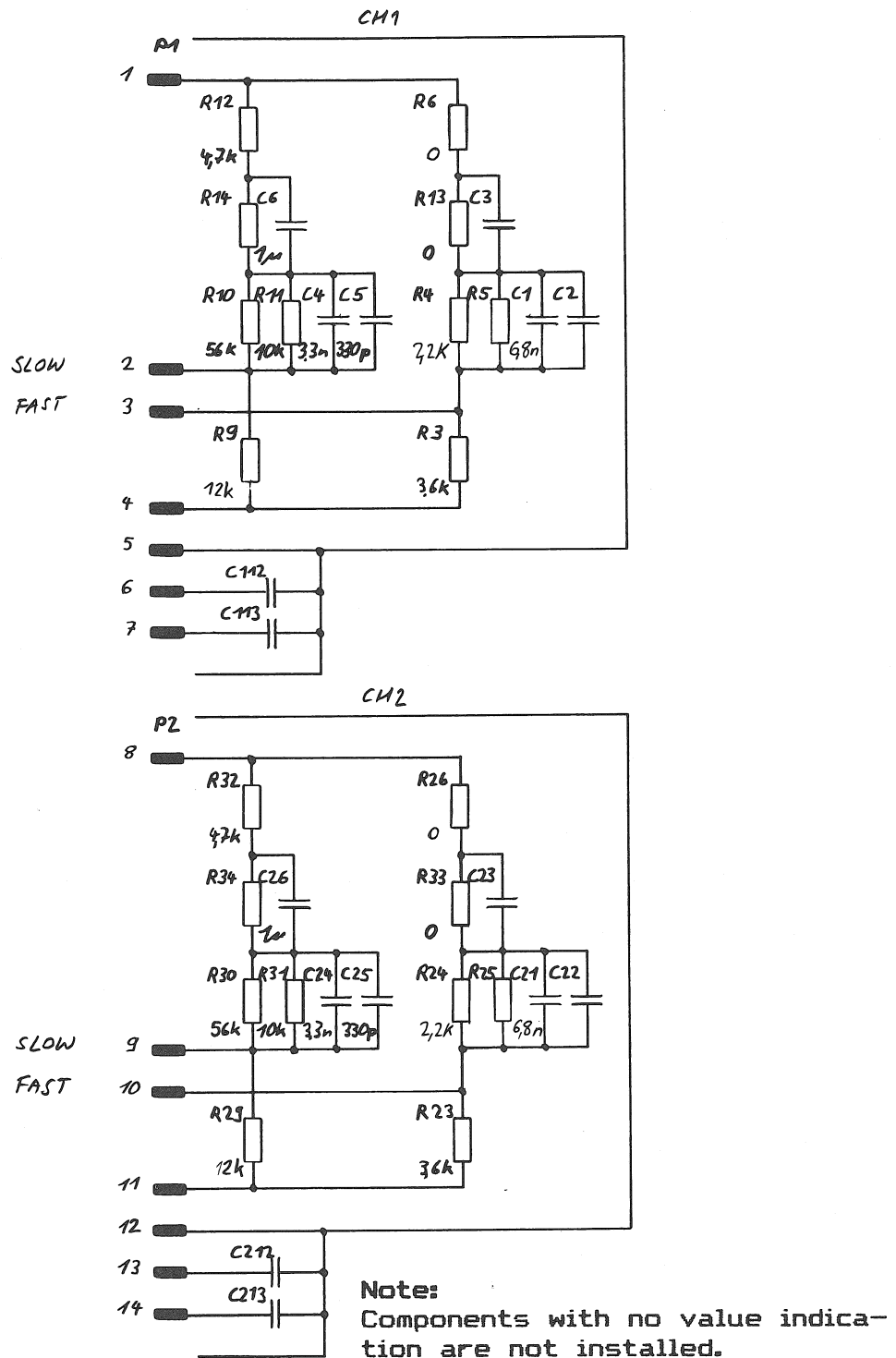
RECORD SPEED BOARD 9.5/19 IEC 1.777.550.00



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	C..0001	59.05.2332	3300 P	2.5% 160V PP		(01)	R..0012	57.11.3102	1 K	1% 0207 MF	
	C..0002	59.05.2331	330 P	2.5% 630V PP		(02)	R..0012	57.11.4472	4.7 K	2% 0207 MF	
	C..0003	59.06.5105	1 U	5% 50V PETP			R..0023	57.11.3123	12 K	1% 0207 MF	
(00)	C..0004	59.05.2103	.01 U	2.5% 63V PP			R..0024	57.11.3563	56 K	1% 0207 MF	
(01)	C..0004	59.05.2472	4700 P	2.5% 63V PP			R..0025	57.11.3103	10 K	1% 0207 MF	
(00)	C..0005	59.05.2332	3300 P	2.5% 160V PP			R..0026	57.11.3472	4.7 K	1% 0207 MF	
(01)	C..0005			not connected		(00)	R..0029	57.11.3103	10 K	1% 0207 MF	
(00)	C..0006	59.06.5474	.47 U	5% 63V PETP		(01)	R..0029	57.11.3183	18 K	1% 0207 MF	
(01)	C..0006	59.06.5224	.22 U	5% 63V PETP		(02)	R..0029	57.11.4223	22 K	2% 0207 MF	
	C..0021	59.05.2332	3300 P	2.5% 160V PP		(00)	R..0030	57.11.3472	4.7 K	1% 0207 MF	
	C..0022	59.05.2331	330 P	2.5% 630V PP		(01)	R..0030	57.11.3103	10 K	1% 0207 MF	
	C..0023	59.06.5105	1 U	5% 50V PETP		(00)	R..0032	57.11.3222	2.2 K	1% 0207 MF	
(00)	C..0024	59.05.2103	.01 U	2.5% 63V PP		(01)	R..0032	57.11.3102	1 K	1% 0207 MF	
(01)	C..0024	59.05.2472	4700 P	2.5% 63V PP		(02)	R..0032	57.11.4472	4.7 K	2% 0207 MF	
(00)	C..0025	59.05.2332	3300 P	2.5% 160V PP							
(01)	C..0025			not connected							
(00)	C..0026	59.06.5474	.47 U	5% 63V PETP							
(01)	C..0026	59.06.5224	.22 U	5% 63V PETP							
(01)	C..0111	59.05.2102	1000 P	2.5% 630V PP							
(01)	C..0213	59.05.2102	1000 P	2.5% 630V PP							
	MP..0001	1.777.550.11		RECORD SPEED BOARD PCB LABEL							
	MP..0002	1.777.550.01		LABEL							
	P..0001	54.01.0223	7 PUL.	STRIP CIS							
	P..0002	54.01.0223	7 PUL.	STRIP CIS							
	R..0003	57.11.3123	12 K	1% 0207 MF							
	R..0004	57.11.3563	56 K	1% 0207 MF							
	R..0005	57.11.3103	10 K	1% 0207 MF							
	R..0006	57.11.3472	4.7 K	1% 0207 MF							
(00)	R..0009	57.11.3103	10 K	1% 0207 MF							
(01)	R..0009	57.11.3183	18 K	1% 0207 MF							
(02)	R..0009	57.11.4223	22 K	2% 0207 MF							
(00)	R..0010	57.11.3472	4.7 K	1% 0207 MF							
(01)	R..0010	57.11.3102	1 K	1% 0207 MF							
(01)	R..0012	57.11.3222	2.2 K	1% 0207 MF							

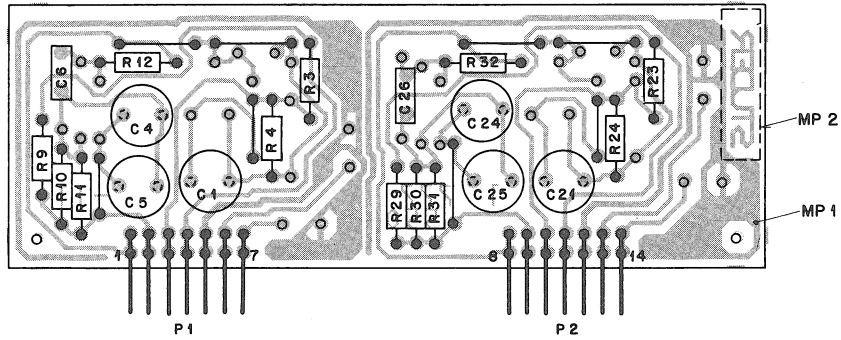


RECORD SPEED BOARD 19/38 IEC 1.777.552.00



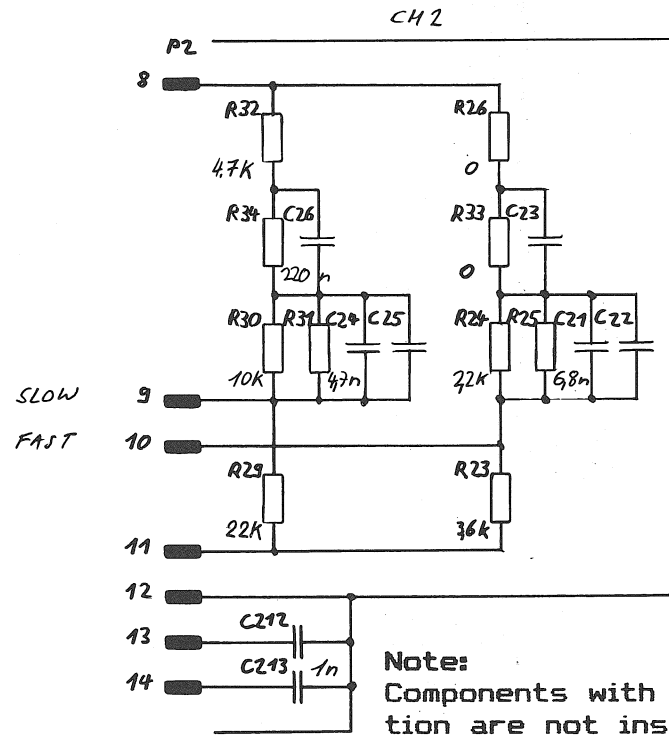
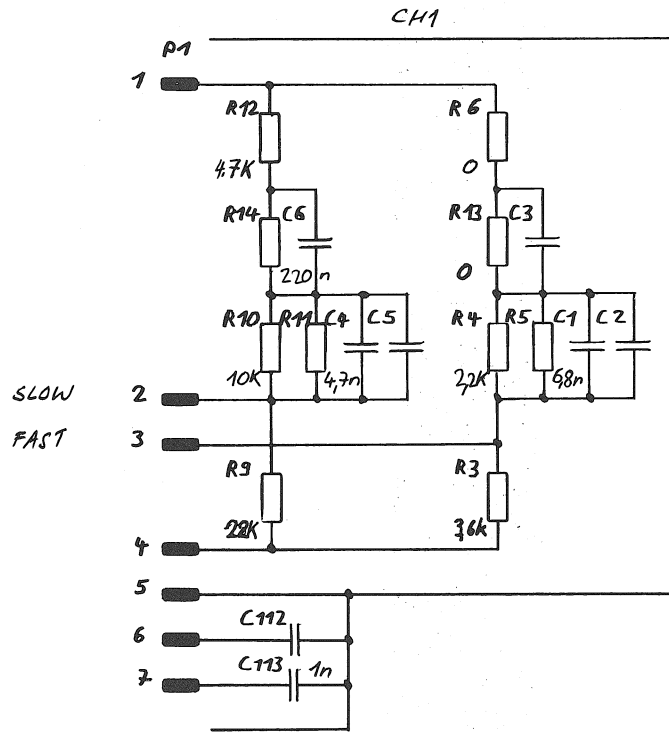
① 232.874 EA	① 177.87 J.L.H. EA	② 150987 E.Zimmerman	○ ..	○ ..
C270			PAGE 1 OF 1	
STUDER	RECORD SPEED B. 19/38 IEC (7,5/15)	SC	1.777.552.00	

RECORD SPEED BOARD 19/38 IEC 1.777.552.00



IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C..0001	59.05.2222	2200 P	2.5%, 160V, PP		(01)	R..0029	57.11.3123	12 K	1%, 0207, MF	
(02)	C..0001	59.05.2682	6800 P	2.5%, 63V, PP			R..0030	57.11.3563	56 K	1%, 0207, MF	
	C..0004	59.05.2332	3300 P	2.5%, 160V, PP			R..0031	57.11.3103	10 K	1%, 0207, MF	
	C..0005	59.05.2331	330 P	2.5%, 630V, PP			R..0032	57.11.3472	4.7 K	1%, 0207, MF	
	C..0006	59.06.5105	1 U	5%, 50V, PETP							
(00)	C..0021	59.05.2222	2200 P	2.5%, 160V, PP							
(02)	C..0021	59.05.2682	6800 P	2.5%, 63V, PP							
	C..0024	59.05.2332	3300 P	2.5%, 160V, PP							
	C..0025	59.05.2331	330 P	2.5%, 630V, PP							
	C..0026	59.06.5105	1 U	5%, 50V, PETP							
	MP.0001	1.777.550.11		RECORD SPEED BOARD PCB							
	MP.0002	1.777.552.01		LABEL							
	P..0001	54.01.0223	7 POL.	STRIP CIS							
	P..0002	54.01.0223	7 POL.	STRIP CIS							
	R..0003	57.11.3362	3.6 K	1%, 0207, MF							
(00)	R..0004	57.11.3392	3.9 K	1%, 0207, MF							
(02)	R..0004	57.11.3222	2.2 K	1%, 0207, MF							
(00)	R..0005	57.11.3472	4.7 K	1%, 0207, MF							
(02)	R..0005			not connected							
(00)	R..0006	57.11.3101	100	1%, 0207, MF							
(02)	R..0006	1.010.324.64	0	WIRING BRIDGE							
(00)	R..0009	57.11.3822	8.2 K	1%, 0207, MF							
(01)	R..0009	57.11.3123	12 K	1%, 0207, MF							
	R..0010	57.11.3563	56 K	1%, 0207, MF							
	R..0011	57.11.3103	10 K	1%, 0207, MF							
	R..0012	57.11.3472	4.7 K	1%, 0207, MF							
	R..0023	57.11.3362	3.6 K	1%, 0207, MF							
(00)	R..0024	57.11.3392	3.9 K	1%, 0207, MF							
(02)	R..0024	57.11.3222	2.2 K	1%, 0207, MF							
(00)	R..0025	57.11.3472	4.7 K	1%, 0207, MF							
(02)	R..0025			not connected							
(00)	R..0026	57.11.3101	100	1%, 0207, MF							
(02)	R..0026	1.010.324.64	0	WIRING BRIDGE							
(00)	R..0029	57.11.3822	8.2 K	1%, 0207, MF							
						(01)	17.07.87	VALUE ADJUST			
						(02)	15.09.87	VALUE ADJUST			
						ORIG 86/09/15	(01) 87/07/17	(02) 87/09/15			

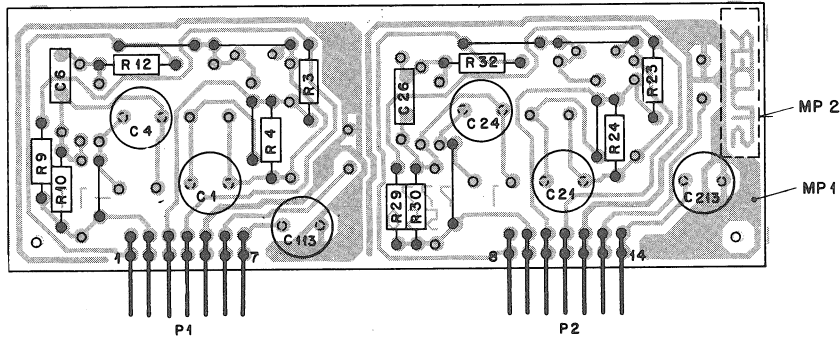
RECORD SPEED BOARD 9.5/38 IEC 1.777.554.00



**Note:**  
Components with no value indication are not installed.

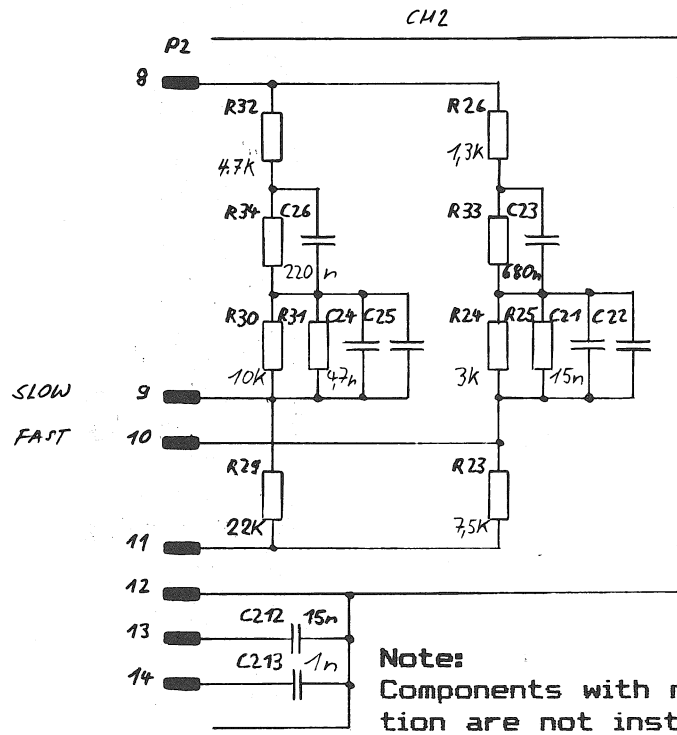
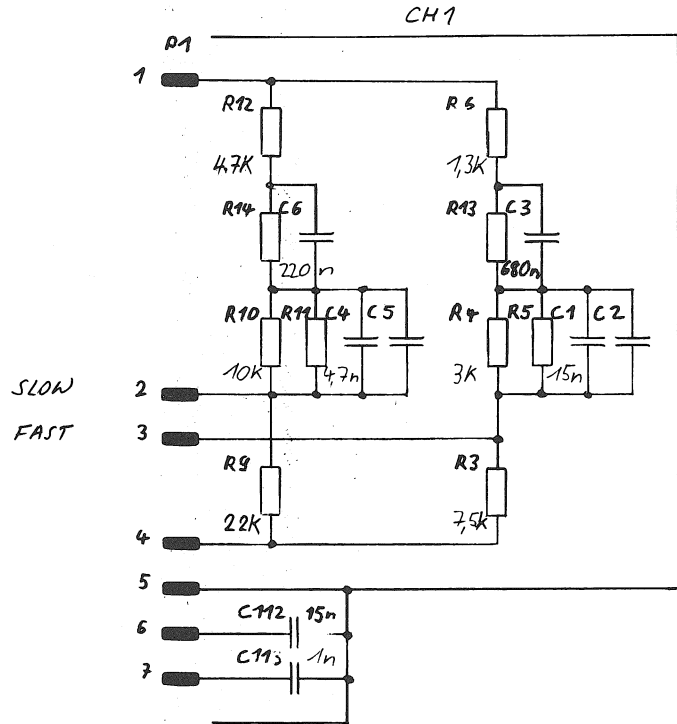
① 23.2.87 EAC	① 15.09.87 E. Himmeler	② 03.02.88	⊙ ..	⊙ ..
C270			PAGE 1 OF 1	
STUDER	RECORD SPEED B. 9.5/38	IEC (3,75/15)	SC	1.777.554.00

RECORD SPEED BOARD 9.5/38 IEC 1.777.554.00



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C..0001	59.05.2222	2200 P	2.5% 160V PP		(00)	R..0012	57.11.3222	2.2 K	1% 0207 MF	
(01)	C..0001	59.05.2682	6800 P	2.5% 63V PP		(01)	R..0012	57.11.3102	1 K	1% 0207 MF	
(00)	C..0004	59.05.2103	.01 U	2.5% 63V PP		(02)	R..0012	57.11.4472	4.7 K	2% 0207 MF	
(01)	C..0004	59.05.2472	4700 P	2.5% 63V PP		R..0023	57.11.3362	3.6 K	1% 0207 MF		
(00)	C..0005	59.05.2332	3300 P	2.5% 160V PP		(00)	R..0024	57.11.3392	3.9 K	1% 0207 MF	
(01)	C..0005			not connected		(01)	R..0024	57.11.3222	2.2 K	1% 0207 MF	
(00)	C..0006	59.06.5474	.47 U	5% 63V PETP		(00)	R..0025	57.11.3472	4.7 K	1% 0207 MF	
(01)	C..0006	59.06.5224	.22 U	5% 63V PETP		(01)	R..0025			not connected	
(00)	C..0021	59.05.2222	2200 P	2.5% 160V PP		(00)	R..0026	57.11.3101	100	1% 0207 MF	
(01)	C..0021	59.05.2682	6800 P	2.5% 63V PP		(01)	R..0026	1.010.324.64	0	WIRING BRIDGE	
(00)	C..0024	59.05.2103	.01 U	2.5% 63V PP		(00)	R..0029	57.11.3103	10 K	1% 0207 MF	
(01)	C..0024	59.05.2472	4700 P	2.5% 63V PP		(01)	R..0029	57.11.3103	18 K	1% 0207 MF	
(00)	C..0025	59.05.2332	3300 P	2.5% 160V PP		(02)	R..0029	57.11.4223	22 K	2% 0207 MF	
(01)	C..0025			not connected		(00)	R..0030	57.11.3472	4.7 K	1% 0207 MF	
(00)	C..0026	59.06.5474	.47 U	5% 63V PETP		(01)	R..0030	57.11.3103	10 K	1% 0207 MF	
(01)	C..0026	59.06.5224	.22 U	5% 63V PETP		(00)	R..0032	57.11.3222	2.2 K	1% 0207 MF	
(01)	C..0113	59.05.2102	1000 P	2.5% 630V PP		(01)	R..0032	57.11.3102	1 K	1% 0207 MF	
(01)	C..0213	59.05.2102	1000 P	2.5% 630V PP		(02)	R..0032	57.11.4472	4.7 K	2% 0207 MF	
MP.0001	1.777.550.11			RECORD SPEED BOARD PCB LABEL							
MP.0002	1.777.554.01										
P..0001	54.01.0223		7 PDL.	STRIP CIS							
P..0002	54.01.0223		7 PDL.	STRIP CIS							
R..0003	57.11.3362		3.6 K	1% 0207 MF							
(00)	R..0004	57.11.3392	3.9 K	1% 0207 MF							
(01)	R..0004	57.11.3222	2.2 K	1% 0207 MF							
(00)	R..0005	57.11.3472	4.7 K	1% 0207 MF							
(01)	R..0005			not connected							
(00)	R..0006	57.11.3101	100	1% 0207 MF							
(01)	R..0006	1.010.324.64	0	WIRING BRIDGE							
(00)	R..0009	57.11.3103	10 K	1% 0207 MF							
(01)	R..0009	57.11.3183	18 K	1% 0207 MF		(01)	15.09.87	Value adjust			
(02)	R..0009	57.11.4223	22 K	2% 0207 MF		(02)	03.02.88	Value adjust			
(00)	R..0010	57.11.3472	4.7 K	1% 0207 MF							
(01)	R..0010	57.11.3103	10 K	1% 0207 MF							
S T U D E R (02) 88/02/03 RECORD SPEED BOARD 9.5/38 IEC 1.777.554.00 PAGE 1						S T U D E R (02) 88/02/03 RECORD SPEED BOARD 9.5/38 IEC 1.777.554.00 PAGE 2					

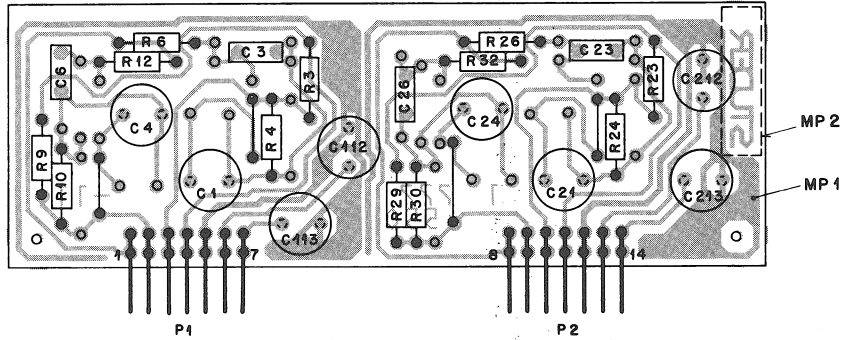
RECORD SPEED BOARD 9.5/19 NAB 1.777.556.00



**Note:**  
Components with no value indication are not installed.

① 232.87 3 E	⑦ 15.03.87 E. B. Müller	② 03.02.88	○ ..	○ ..
C270			PAGE 1 OF 1	
STUDER	RECORD SPEED B. 9.5/19 NAB(3,75 / 7,5)	SC	1.777.556.00	

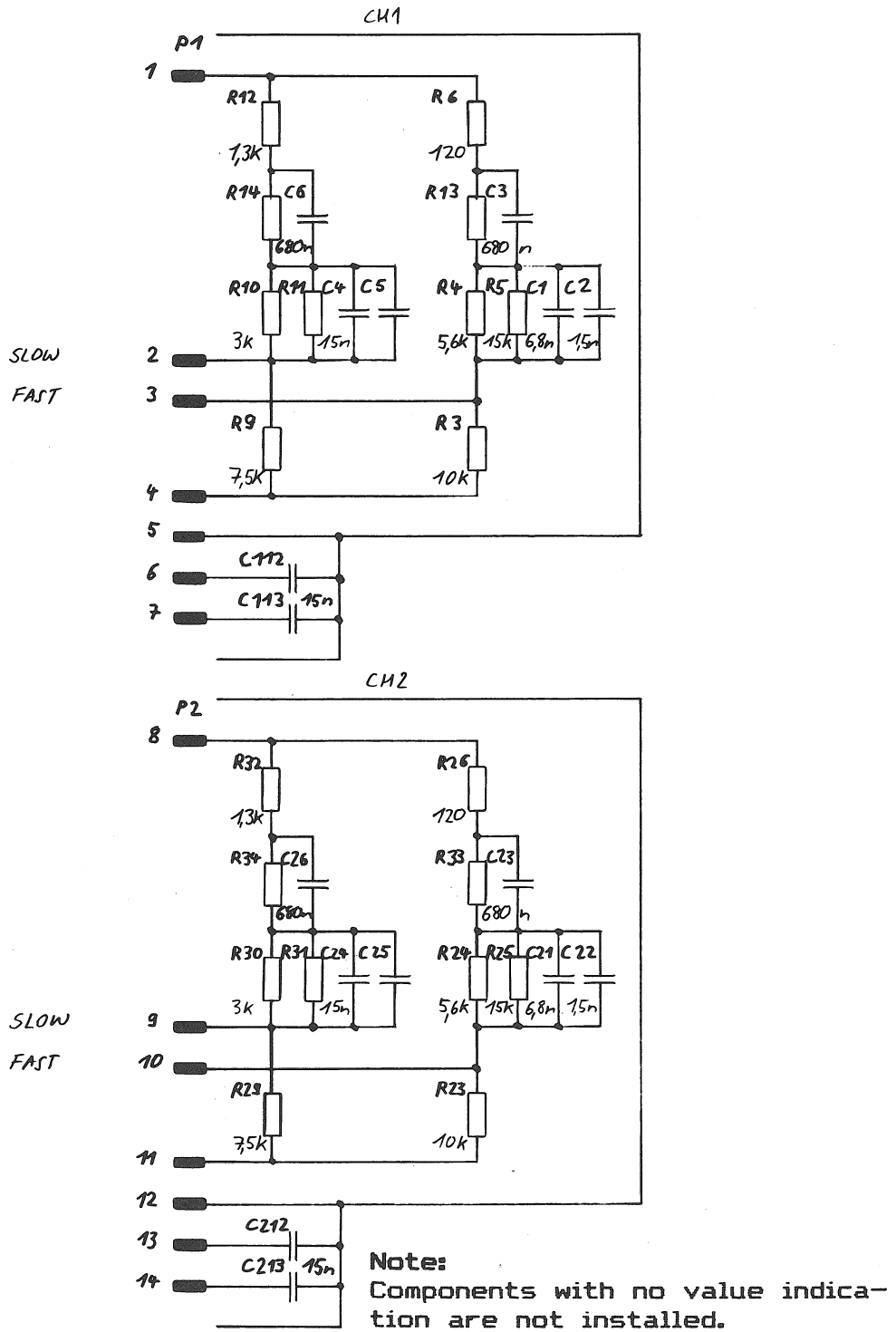
RECORD SPEED BOARD 9.5/19 NAB 1.777.556.00



IND.	PDS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	PDS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C..0001	59.05.2682	6800 P	2.5%, 63V, PP		(00)	R..0004	57.11.3332	3.3 K	1%, 0207, MF	
(01)	C..0001	59.05.2153	.015 U	2.5%, 63V, PP		(01)	R..0004	57.11.3302	3 K	1%, 0207, MF	
(00)	C..0002	59.05.2682	6800 P	2.5%, 63V, PP		(00)	R..0006	57.11.3152	1.5 K	1%, 0207, MF	
(01)	C..0002	59.05.2682	6800 P	not connected		(01)	R..0006	57.11.3132	1.3 K	1%, 0207, MF	
(00)	C..0003	59.06.5684	.68 U	5%, 50V, PETP		(00)	R..0009	57.11.3103	10 K	1%, 0207, MF	
(00)	C..0004	59.05.2103	.01 U	2.5%, 63V, PP		(01)	R..0009	57.11.3183	18 K	1%, 0207, MF	
(01)	C..0004	59.05.2412	4700 P	2.5%, 63V, PP		(02)	R..0009	57.11.4223	22 K	2%, 0207, MF	
(00)	C..0005	59.05.2332	3300 P	2.5%, 160V, PP		(00)	R..0010	57.11.3472	4.7 K	1%, 0207, MF	
(01)	C..0005	59.05.2332	3300 P	not connected		(01)	R..0010	57.11.3103	10 K	1%, 0207, MF	
(00)	C..0006	59.06.5474	.47 U	5%, 63V, PETP		(00)	R..0012	57.11.3222	2.2 K	1%, 0207, MF	
(01)	C..0006	59.06.5224	.22 U	5%, 63V, PETP		(01)	R..0012	57.11.3102	1 K	1%, 0207, MF	
(00)	C..0021	59.05.2682	6800 P	2.5%, 63V, PP		(02)	R..0012	57.11.4472	4.7 K	2%, 0207, MF	
(01)	C..0021	59.05.2153	.015 U	2.5%, 63V, PP		(00)	R..0023	57.11.3822	8.2 K	1%, 0207, MF	
(00)	C..0022	59.05.2682	6800 P	2.5%, 63V, PP		(01)	R..0023	57.11.3752	7.5 K	1%, 0207, MF	
(01)	C..0022	59.05.2682	6800 P	not connected		(00)	R..0024	57.11.3332	3.3 K	1%, 0207, MF	
(00)	C..0023	59.06.5684	.68 U	5%, 50V, PETP		(01)	R..0024	57.11.3302	3 K	1%, 0207, MF	
(00)	C..0024	59.05.2103	.01 U	2.5%, 63V, PP		(00)	R..0026	57.11.3152	1.5 K	1%, 0207, MF	
(01)	C..0024	59.05.2472	4700 P	2.5%, 63V, PP		(01)	R..0026	57.11.3132	1.3 K	1%, 0207, MF	
(00)	C..0025	59.05.2332	3300 P	2.5%, 160V, PP		(00)	R..0029	57.11.3103	10 K	1%, 0207, MF	
(01)	C..0025	59.05.2332	3300 P	not connected		(01)	R..0029	57.11.3183	18 K	1%, 0207, MF	
(00)	C..0026	59.06.5474	.47 U	5%, 63V, PETP		(02)	R..0029	57.11.4223	22 K	2%, 0207, MF	
(01)	C..0026	59.06.5224	.22 U	5%, 63V, PETP		(00)	R..0030	57.11.3472	4.7 K	1%, 0207, MF	
(00)	C..0112	59.05.2153	.015 U	2.5%, 63V, PP		(01)	R..0030	57.11.3103	10 K	1%, 0207, MF	
(00)	C..0113	59.05.2153	.015 U	2.5%, 63V, PP		(00)	R..0032	57.11.3222	2.2 K	1%, 0207, MF	
(01)	C..0113	59.05.2102	1000 P	2.5%, 630V, PP		(01)	R..0032	57.11.3102	1 K	1%, 0207, MF	
(00)	C..0212	59.05.2153	.015 U	2.5%, 63V, PP		(02)	R..0032	57.11.4472	4.7 K	2%, 0207, MF	
(00)	C..0213	59.05.2153	.015 U	2.5%, 63V, PP							
(01)	C..0213	59.05.2102	1000 P	2.5%, 630V, PP							

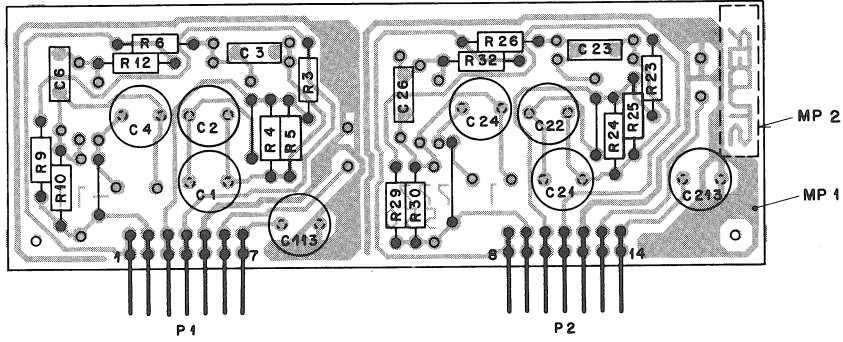
MP..0001	1.777.550.11	RECORD SPEED BOARD PCB LABEL				(01)	15.09.87	Value adjust			
MP..0002	1.777.556.01	RECORD SPEED BOARD PCB LABEL				(02)	03.02.88	Value adjust			
P..0001	54.01.0223	7 PDL.		STRIP C15							
P..0002	54.01.0223	7 PDL.		STRIP C15							
(00)	R..0003	57.11.3822	8.2 K	1%, 0207, MF		ORIG 86/09/16	(01) 87/09/15	(02) 88/02/03			
(01)	R..0003	57.11.3752	7.5 K	1%, 0207, MF							

RECORD SPEED BOARD 19/38 NAB 1.777.558.00



©232.872	Eq	① 15.0987 E. J. ...	○ ..	○ ..	○ ..
C270					PAGE 1 OF 1
STUDER	RECORD SPEED B.19/38 NAB( 7,5 / 15 )			SC	1.777.558.00

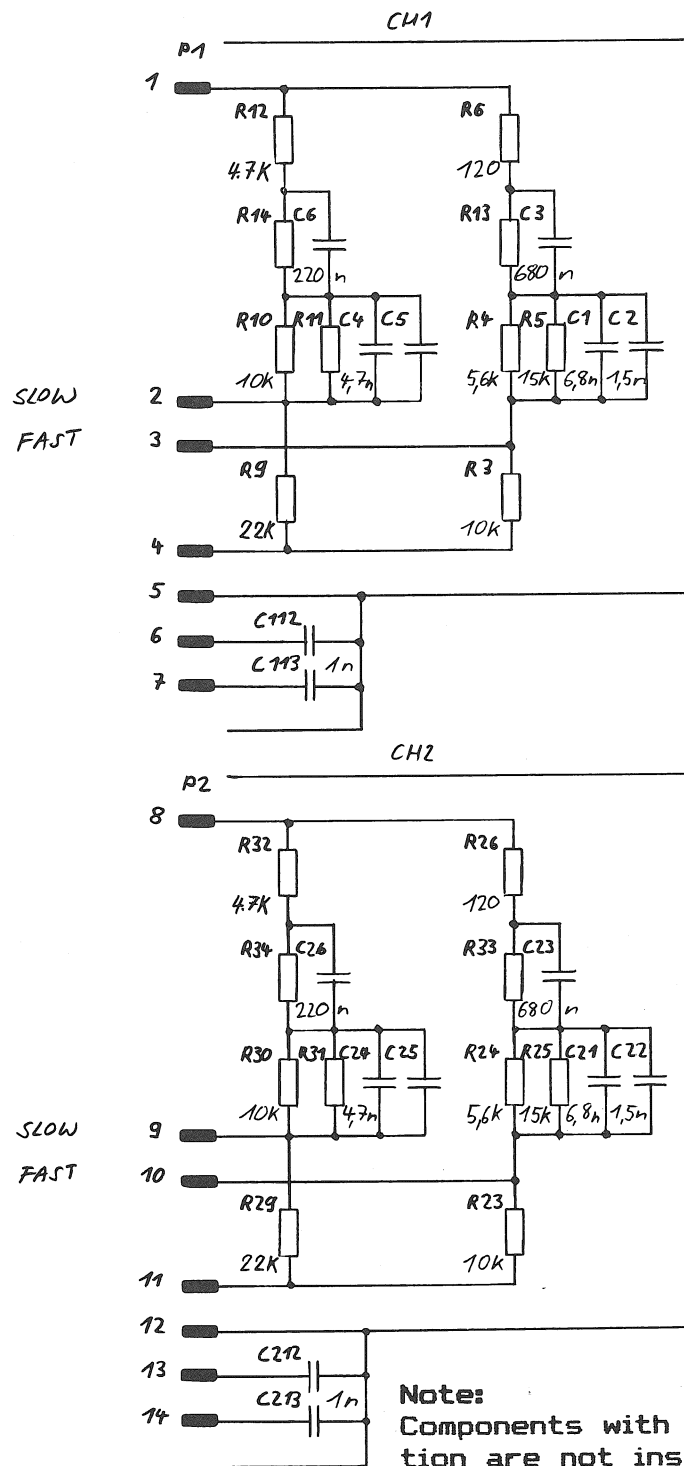
RECORD SPEED BOARD 19/38 NAB 1.777.558.00



IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C..0001	59.05.2103	.01 U	2.5%, 63V PP		(01)	R..0009	57.11.3752	7.5 K	1%, 0207 MF	
(01)	C..0001	59.05.2682	6800 P	2.5%, 63V PP		(00)	R..0010	57.11.3332	3.3 K	1%, 0207 MF	
(01)	C..0002	59.05.2152	1500 P	2.5%, 160V PP		(01)	R..0010	57.11.3302	3 K	1%, 0207 MF	
(00)	C..0003	59.06.5105	1 U	5%, 50V PETP		(00)	R..0012	57.11.3152	1.5 K	1%, 0207 MF	
(01)	C..0003	59.06.5684	.68 U	5%, 50V PETP		(01)	R..0012	57.11.3132	1.3 K	1%, 0207 MF	
(00)	C..0004	59.05.2682	6800 P	2.5%, 63V PP		(00)	R..0023	57.11.3822	8.2 K	1%, 0207 MF	
(01)	C..0004	59.05.2153	.015 U	2.5%, 63V PP		(01)	R..0023	57.11.3103	10 K	1%, 0207 MF	
(00)	C..0005	59.05.2682	6800 P	2.5%, 63V PP		(00)	R..0024	57.11.3332	3.3 K	1%, 0207 MF	
(01)	C..0005			not connected		(01)	R..0024	57.11.3562	5.6 K	1%, 0207 MF	
C..0006	59.06.5684	.68 U	5%	50V PETP		(01)	R..0025	57.11.3153	15 K	1%, 0207 MF	
(00)	C..0021	59.05.2103	.01 U	2.5%, 63V PP		(00)	R..0026	57.11.3101	100	1%, 0207 MF	
(01)	C..0021	59.05.2682	6800 P	2.5%, 63V PP		(01)	R..0026	57.11.3121	120	1%, 0207 MF	
(01)	C..0022	59.05.2152	1500 P	2.5%, 160V PP		(00)	R..0029	57.11.3822	8.2 K	1%, 0207 MF	
(00)	C..0023	59.06.5105	1 U	5%, 50V PETP		(01)	R..0029	57.11.3752	7.5 K	1%, 0207 MF	
(01)	C..0023	59.06.5684	.68 U	5%, 50V PETP		(00)	R..0030	57.11.3332	3.3 K	1%, 0207 MF	
(00)	C..0024	59.05.2682	6800 P	2.5%, 63V PP		(01)	R..0030	57.11.3302	3 K	1%, 0207 MF	
(01)	C..0024	59.05.2153	.015 U	2.5%, 63V PP		(00)	R..0032	57.11.3152	1.5 K	1%, 0207 MF	
(00)	C..0025	59.05.2682	6800 P	2.5%, 63V PP		(01)	R..0032	57.11.3132	1.3 K	1%, 0207 MF	
(01)	C..0025			not connected							
C..0026	59.06.5684	.68 U	5%	50V PETP							
C..0113	59.05.2153	.015 U	2.5%	63V PP							
C..0213	59.05.2153	.015 U	2.5%	63V PP							
MP..0001	1.777.550.11			RECORD SPEED BOARD PCB							
MP..0002	1.777.558.01			LABEL							
P..0001	54.01.0223	7 POL.		STRIP CIS							
P..0002	54.01.0223	7 POL.		STRIP CIS							
(00)	R..0003	57.11.3822	8.2 K	1%, 0207 MF							
(01)	R..0003	57.11.3103	10 K	1%, 0207 MF							
(00)	R..0004	57.11.3332	3.3 K	1%, 0207 MF							
(01)	R..0004	57.11.3562	5.6 K	1%, 0207 MF							
(01)	R..0005	57.11.3153	15 K	1%, 0207 MF							
(00)	R..0006	57.11.3101	100	1%, 0207 MF							
(01)	R..0006	57.11.3121	120	1%, 0207 MF							
(00)	R..0009	57.11.3822	8.2 K	1%, 0207 MF							
(01)	R..0009	57.11.3752	7.5 K	1%, 0207 MF							
(00)	R..0010	57.11.3332	3.3 K	1%, 0207 MF							
(01)	R..0010	57.11.3302	3 K	1%, 0207 MF							
(00)	R..0012	57.11.3152	1.5 K	1%, 0207 MF							
(01)	R..0012	57.11.3132	1.3 K	1%, 0207 MF							
(00)	R..0023	57.11.3822	8.2 K	1%, 0207 MF							
(01)	R..0023	57.11.3103	10 K	1%, 0207 MF							
(00)	R..0024	57.11.3332	3.3 K	1%, 0207 MF							
(01)	R..0024	57.11.3562	5.6 K	1%, 0207 MF							
(01)	R..0025	57.11.3153	15 K	1%, 0207 MF							
(00)	R..0026	57.11.3101	100	1%, 0207 MF							
(01)	R..0026	57.11.3121	120	1%, 0207 MF							
(00)	R..0029	57.11.3822	8.2 K	1%, 0207 MF							
(01)	R..0029	57.11.3752	7.5 K	1%, 0207 MF							
(00)	R..0030	57.11.3332	3.3 K	1%, 0207 MF							
(01)	R..0030	57.11.3302	3 K	1%, 0207 MF							
(00)	R..0032	57.11.3152	1.5 K	1%, 0207 MF							
(01)	R..0032	57.11.3132	1.3 K	1%, 0207 MF							
(01) 15.09.87 VALUE ADJUST											

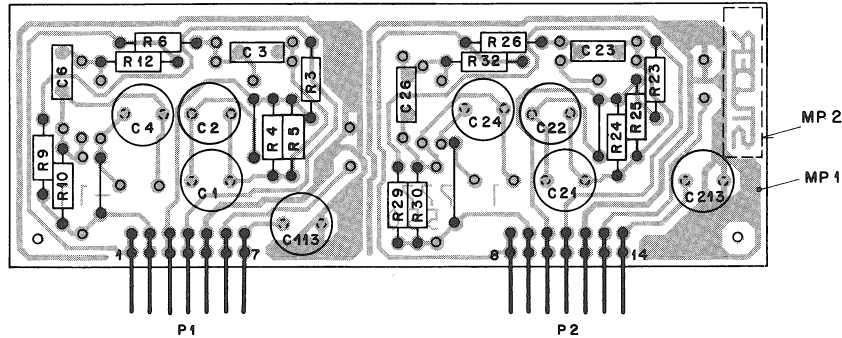


RECORD SPEED BOARD 9.5/38 NAB 1.777.559.00



① 23.2.873	② 15.09.87 E. b. m. m. m.	③ 03.02.88	○ ..	○ ..
C270			PAGE 1 OF 1	
STUDER	RECORD SPEED B. 9.5 / 38 NAB(3,75/15) SC	1.777.559.00		

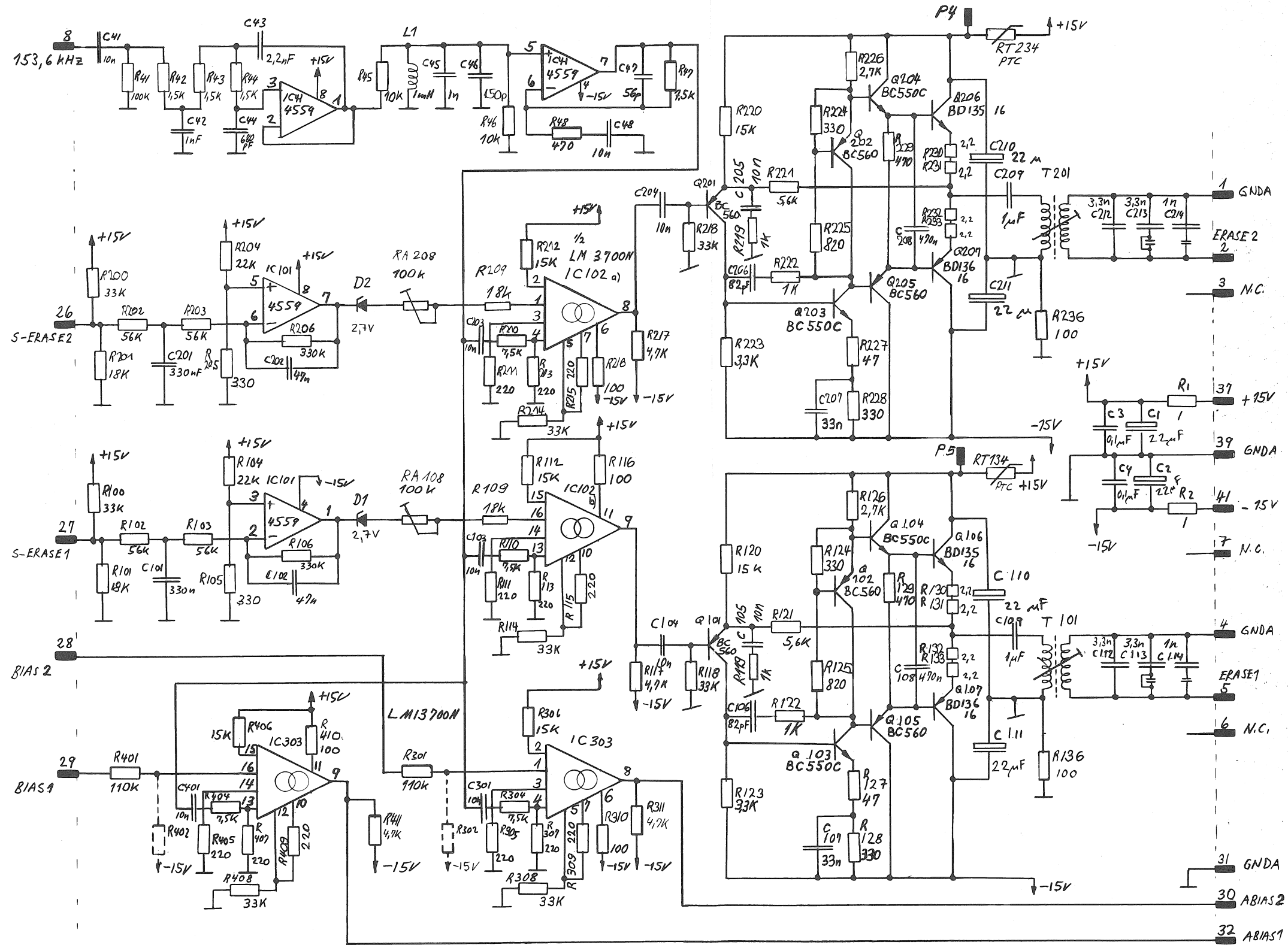
RECORD SPEED BOARD 9.5/38 NAB 1.777.559.00



IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C..0001	59.05.2103	.01 U	2.5% 63V PP	
(01)	C..0001	59.05.2682	6800 P	2.5% 63V PP	
(01)	C..0002	59.05.2152	1500 P	2.5% 160V PP	
(00)	C..0003	59.06.5105	1 U	5% 50V PETP	
(01)	C..0003	59.06.5684	.68 U	5% 50V PETP	
(00)	C..0004	59.05.2103	.01 U	2.5% 63V PP	
(01)	C..0004	59.05.2472	4700 P	2.5% 63V PP	
(00)	C..0005	59.05.2332	3300 P	2.5% 160V PP	
(01)	C..0005			not connected	
(00)	C..0006	59.06.5474	.47 U	5% 63V PETP	
(01)	C..0006	59.06.5224	.22 U	5% 63V PETP	
(00)	C..0021	59.05.2103	.01 U	2.5% 63V PP	
(01)	C..0021	59.05.2682	6800 P	2.5% 63V PP	
(01)	C..0022	59.05.2152	1500 P	2.5% 63V PP	
(00)	C..0023	59.06.5105	1 U	5% 50V PETP	
(01)	C..0023	59.06.5684	.68 U	5% 50V PETP	
(00)	C..0024	59.05.2103	.01 U	2.5% 63V PP	
(01)	C..0024	59.05.2472	4700 P	2.5% 63V PP	
(00)	C..0025	59.05.2332	3300 P	2.5% 160V PP	
(01)	C..0025			not connected	
(00)	C..0026	59.06.5474	.47 U	5% 63V PETP	
(01)	C..0026	59.06.5224	.22 U	5% 63V PETP	
(00)	C..0113	59.05.2153	.015 U	2.5% 63V PP	
(01)	C..0113	59.05.2102	1000 P	2.5% 630V PP	
(00)	C..0213	59.05.2153	.015 U	2.5% 63V PP	
(01)	C..0213	59.05.2102	1000 P	2.5% 630V PP	
	MP..0001	1.777.550.11		RECORD SPEED BOARD PCB LABEL	
	MP..0002	1.777.559.01			
	P..0001	54.01.0223	7 POL	STRIP CIS	
	P..0002	54.01.0223	7 POL	STRIP CIS	
(00)	R..0003	57.11.3822	8.2 K	1% 0207 MF	
(01)	R..0003	57.11.3103	10 K	1% 0207 MF	
(00)	R..0004	57.11.3332	3.3 K	1% 0207 MF	
(01)	R..0004	57.11.3562	5.6 K	1% 0207 MF	

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(01)	R..0005	57.11.3153	15 K	1% 0207 MF	
(00)	R..0006	57.11.3101	100	1% 0207 MF	
(01)	R..0006	57.11.3121	120	1% 0207 MF	
(00)	R..0009	57.11.3103	10 K	1% 0207 MF	
(01)	R..0009	57.11.3183	18 K	1% 0207 MF	
(02)	R..0009	57.11.4223	22 K	2% 0207 MF	
(00)	R..0010	57.11.3472	4.7 K	1% 0207 MF	
(01)	R..0010	57.11.3103	10 K	1% 0207 MF	
(02)	R..0012	57.11.3222	2.2 K	1% 0207 MF	
(01)	R..0012	57.11.3102	1 K	1% 0207 MF	
(02)	R..0012	57.11.4472	4.7 K	2% 0207 MF	
(00)	R..0023	57.11.3822	8.2 K	1% 0207 MF	
(01)	R..0023	57.11.3103	10 K	1% 0207 MF	
(00)	R..0024	57.11.3332	3.3 K	1% 0207 MF	
(01)	R..0024	57.11.3562	5.6 K	1% 0207 MF	
(01)	R..0025	57.11.3153	15 K	1% 0207 MF	
(00)	R..0026	57.11.3101	100	1% 0207 MF	
(01)	R..0026	57.11.3121	120	1% 0207 MF	
(00)	R..0029	57.11.3103	10 K	1% 0207 MF	
(01)	R..0029	57.11.3183	18 K	1% 0207 MF	
(02)	R..0029	57.11.4223	22 K	2% 0207 MF	
(00)	R..0030	57.11.3472	4.7 K	1% 0207 MF	
(01)	R..0030	57.11.3103	10 K	1% 0207 MF	
(00)	R..0032	57.11.3222	2.2 K	1% 0207 MF	
(01)	R..0032	57.11.3102	1 K	1% 0207 MF	
(02)	R..0032	57.11.4472	4.7 K	2% 0207 MF	
				(01) 15.09.87 Value adjust	
				(02) 03.02.88 Value adjust	
				ORIG 86/09/16 (01) 87/09/15 (02) 88/02/03	

ERASE AMPLIFIER BOARD 1.777.560.81

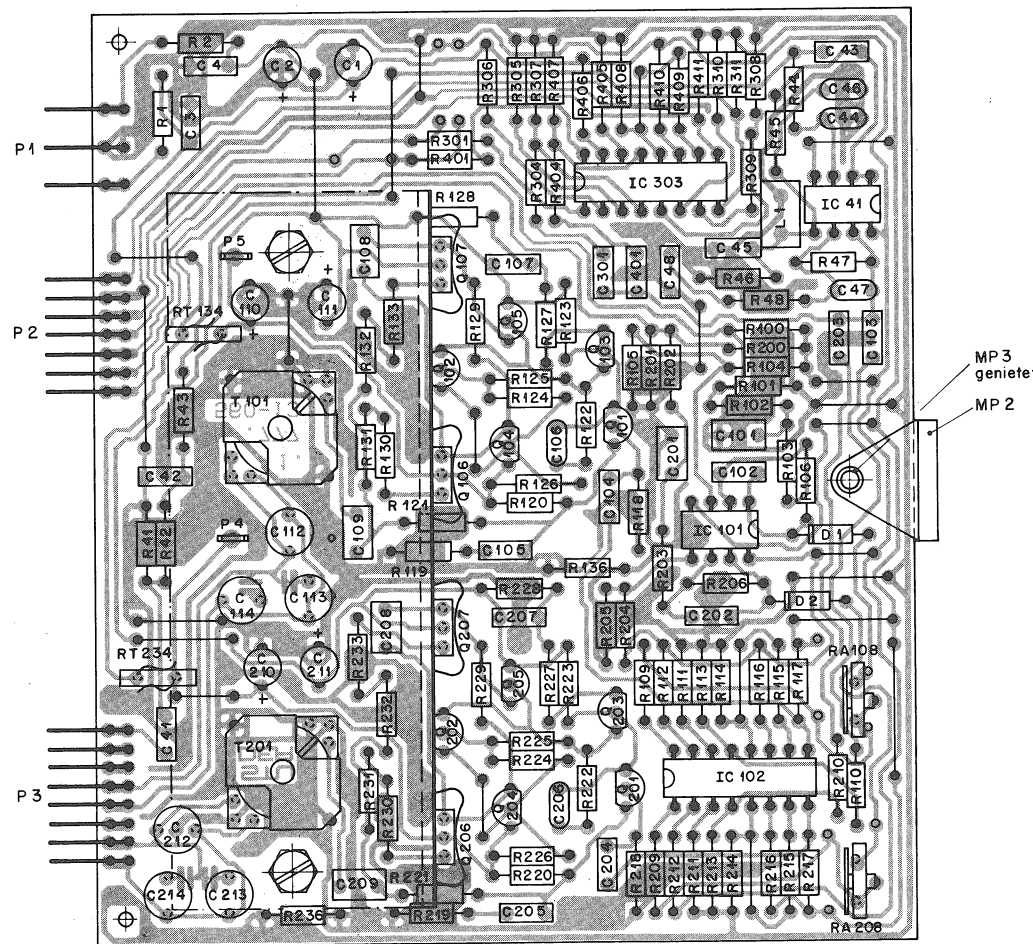


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STUDER

ERASE AMPLIFIER BOARD 1.777.560.81



IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0001	59.22.5220	22 U	-20%	25V EL		R..0117	57.11.4472	4.7 K	2%	0207 MF	
C..0002	59.22.5220	22 U	-20%	25V EL		R..0118	57.11.4333	33 K	2%	0207 MF	
C..0003	59.06.0104	.1 U	10%	63V PETP		R..0119	57.11.4102	1 K	2%	0207 MF	
C..0004	59.06.0104	.1 U	10%	63V PETP		R..0120	57.11.4153	15 K	2%	0207 MF	
C..0041	59.06.5103	.01 U	5%	63V PETP		R..0121	57.11.4562	5.6 K	2%	0207 MF	
C..0042	59.06.5102	1000 P	5%	63V PETP		R..0122	57.11.4102	1 K	2%	0207 MF	
C..0043	59.06.5222	2200 P	5%	63V PETP		R..0123	57.11.4333	33 K	2%	0207 MF	
C..0044	59.32.2681	680 P	10%	50V CER		R..0124	57.11.4331	330	2%	0207 MF	
C..0045	59.06.5102	1000 P	5%	63V PETP		R..0125	57.11.4921	820	2%	0207 MF	
C..0046	59.34.4151	150 P	5%	N750 CER		R..0126	57.11.4272	2.7 K	2%	0207 MF	
C..0047	59.34.4560	56 P	5%	N750 CER		R..0127	57.11.4470	47	2%	0207 MF	
C..0048	59.06.0103	.01 U	10%	63V PETP		R..0128	57.11.4331	330	2%	0207 MF	
C..0101	59.06.5334	.33 U	5%	63V PETP		R..0129	57.11.4471	470	2%	0207 MF	
C..0102	59.06.5473	.047 U	5%	63V PETP		R..0130	57.11.4229	2.2	2%	0207 MF	
C..0103	59.06.0103	.01 U	10%	63V PETP		R..0131	57.11.4229	2.2	2%	0207 MF	
C..0104	59.06.0103	.01 U	10%	63V PETP		R..0132	57.11.4229	2.2	2%	0207 MF	
C..0105	59.06.0103	.01 U	10%	63V PETP		R..0133	57.11.4229	2.2	2%	0207 MF	
C..0106	59.34.4820	.82 P	5%	N750 CER		R..0136	57.11.4101	100	2%	0207 MF	
C..0107	59.06.0333	.033 U	10%	63V PETP		R..0200	57.11.4333	33 K	2%	0207 MF	
C..0108	59.06.0474	.47 U	10%	63V PETP		R..0201	57.11.4183	18 K	2%	0207 MF	
C..0109	59.06.0105	1.0 U	10%	50V PETP		R..0202	57.11.4563	56 K	2%	0207 MF	
C..0110	59.22.5220	22 U	-20%	25V EL		R..0203	57.11.4563	56 K	2%	0207 MF	
C..0111	59.22.5220	22 U	-20%	25V EL		R..0204	57.11.4221	22 K	2%	0207 MF	
C..0112	59.05.1332	3300 P	1%	63V PETP		R..0205	57.11.4331	330	2%	0207 MF	
C..0113	59.05.1332	3300 P	1%	63V PETP		R..0206	57.11.4334	330 K	2%	0207 MF	
C..0114	59.05.1102	1000 P	1%	63V PETP		R..0209	57.11.4183	18 K	2%	0207 MF	
C..0201	59.06.5334	.33 U	5%	63V PETP		R..0210	57.11.3752	7.5 K	1%	0207 MF	
C..0202	59.06.5473	.047 U	5%	63V PETP		R..0211	57.11.4221	220	2%	0207 MF	
C..0203	59.06.0103	.01 U	10%	63V PETP		R..0212	57.11.4153	15 K	2%	0207 MF	
C..0204	59.06.0103	.01 U	10%	63V PETP		R..0213	57.11.4221	220	2%	0207 MF	
C..0205	59.06.0103	.01 U	10%	63V PETP		R..0214	57.11.4333	33 K	2%	0207 MF	
C..0206	59.34.4820	.82 P	5%	N750 CER		R..0215	57.11.4221	220	2%	0207 MF	
C..0207	59.06.0333	.033 U	10%	63V PETP		R..0216	57.11.4101	100	2%	0207 MF	
C..0208	59.06.0474	.47 U	10%	63V PETP		R..0217	57.11.4272	4.7 K	2%	0207 MF	
C..0209	59.06.0105	1.0 U	10%	50V PETP		R..0218	57.11.4333	33 K	2%	0207 MF	
C..0210	59.22.5220	22 U	-20%	25V EL		R..0219	57.11.4102	1 K	2%	0207 MF	
C..0211	59.22.5220	22 U	-20%	25V EL		R..0220	57.11.4153	15 K	2%	0207 MF	

STUDER (02) 87/11/15 ERASE AMPLIFIER BOARD A 1.777.560.00 PAGE 1

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0212	59.05.1332	3300 P	1%	63V PETP		R..0221	57.11.4562	5.6 K	2%	0207 MF	
C..0213	59.05.1332	3300 P	1%	63V PETP		R..0222	57.11.4102	1 K	2%	0207 MF	
C..0214	59.05.1102	1000 P	1%	63V PETP		R..0223	57.11.4332	33 K	2%	0207 MF	
C..0301	59.06.0103	.01 U	10%	63V PETP		R..0224	57.11.4331	330	2%	0207 MF	
C..0401	59.06.0103	.01 U	10%	63V PETP		R..0225	57.11.4921	820	2%	0207 MF	
D..0001	50.04.1106	2.7 V	5%	.404, Z		R..0226	57.11.4272	2.7 K	2%	0207 MF	
D..0002	50.04.1106	2.7 V	5%	.404, Z		R..0227	57.11.4470	47	2%	0207 MF	
IC..0041	50.39.0107			RC 4559 NB, UPC 4559	RA+NEC	R..0228	57.11.4331	330	2%	0207 MF	
IC..0101	50.09.0107			RC 4559 NB, UPC 4559	RA+NEC	R..0229	57.11.4471	470	2%	0207 MF	
IC..0102	50.09.0112			LM 13 700 NA, NE 5517 N	Nat+Sig	R..0230	57.11.4229	2.2	2%	0207 MF	
IC..0303	50.09.0112			LM 13 700 NA, NE 5517 N	Nat+Sig	R..0231	57.11.4229	2.2	2%	0207 MF	
L..0001	62.02.3102	1 M	10%	RAD., R <sup>4</sup> S		R..0232	57.11.4229	2.2	2%	0207 MF	
(03)	LL..0001	1.777.560.93		WL-ERASE AMPLIFIER	St	R..0233	57.11.4101	100	2%	0207 MF	
MP..0001	1.777.560.11			ERASE AMPL. PCB	St	R..0301	57.11.3114	110 K	not connected		
(02)	MP..0001	1.777.560.12		ERASE AMPL. PCB	St	R..0302	57.11.3752	7.5 K	1%	0207 MF	
MP..0002	1.010.001.33			GRIP	St	R..0303	57.11.4221	220	2%	0207 MF	
MP..0003	28.21.1360	02.2595		TUBULARRIVET	Thy	R..0304	57.11.4153	15 K	2%	0207 MF	
(03)	MP..0004	30.20.3003	4 pcs	HEAT SINKS	St	R..0307	57.11.4221	220	2%	0207 MF	
(01)	MP..0005	1.777.560.01	1 pcs	HEAT SINKS	St	R..0308	57.11.4333	33 K	2%	0207 MF	
(01)	MP..0006	50.20.2002	4 pcs	CLAMP	St	R..0309	57.11.4921	820	2%	0207 MF	
(01)	MP..0007	1.010.022.22	2 pcs	RIVETNUT	St	R..0310	57.11.4101	100	2%	0207 MF	
(01)	MP..0008	21.26.0353	2 pcs	SCREW	St	R..0311	57.11.4472	4.7 K	2%	0207 MF	
(01)	MP..0008	24.16.1030	2 pcs	WASHER	St	R..0401	57.11.3114	110 K	not connected		
(01)	MP..0009	1.777.560.02	1 pcs	INSULATION	St	R..0404	57.11.3752	7.5 K	1%	0207 MF	
P..0001	54.01.0469	3 POL.		STRIP CIS ANGLE	AMP	R..0405	57.11.4221	220	2%	0207 MF	
P..0002	54.01.0223	7 POL.		STRIP CIS ANGLE	AMP	R..0406	57.11.4153	15 K	2%	0207 MF	
P..0003	54.01.0270	8 POL.		STRIP CIS ANGLE	AMP	R..0407	57.11.4221	220	2%	0207 MF	
P..0004	54.02.0320	2.8*0.8		TEST POINT	Lo	R..0408	57.11.4333	33 K	2%	0207 MF	
P..0005	54.02.0320	2.8*0.8		TEST POINT	Lo	R..0409	57.11.4221	220	2%	0207 MF	
U..0101	50.03.0496			BC 560	a	R..0411	57.11.4472	4.7 K	2%	0207 MF	

STUDER (03) 88/12/06 ERASE AMPLIFIER BOARD A PL 1.777.560.00 PAGE 2

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
Q..0104	50.03.0407			BC 550 C (BC 109 C)	a	RA..0108	58.02.4104	100 K	20%	.1 M + PCSCM	
Q..0105	50.03.0496			BC 560	Ph+SGS+To	RA..0208	58.02.4104	100 K	20%	.1 M + PCSCM	
Q..0106	50.03.0496			BD 136-16	Ph+SGS+To	RT..0134	57.92.1181	180 MA	56V	PTC	
Q..0107	50.03.0510			BD 136-16	a	KT..0234	57.92.1181	180 MA	50V	PTC	
Q..0201	50.03.0496			BC 560	Ph+SGS+To	T..0101	1.022.001.00			ERASE TRANSFORMER	St
Q..0202	50.03.0496			BC 560	a	T..0201	1.022.001.00			ERASE TRANSFORMER	St
Q..0203	50.03.0407			BC 550 C (BC 109 C)	Ph+SGS+To						
Q..0204	50.03.0407			BC 550 C (BC 109 C)	Ph+SGS+To						
Q..0205	50.03.0496			BC 560	a						
Q..0206	50.03.0495			BD 136-16	Ph+SGS+To						
Q..0207	50.03.0510			BD 136-16	Ph+SGS+To						
R..0001	57.11.4109	1	2%	0207 MF							
R..0002	57.11.4109	1	2%	0207 MF							
R..0041	57.11.4104	100 K	2%	0207 MF							
R..0042	57.11.4152	1.5 K	2%	0207 MF							
R..0043	57.11.4152	1.5 K	2%	0207 MF							
R..0044	57.11.4152	1.5 K	2%	0207 MF							
R..0045	57.11.4103	10 K	2%	0207 MF							
R..0046	57.11.4103	10 K	2%	0207 MF							
R..0047	57.11.3752	7.5 K	1%	0207 MF							
R..0048	57.11.4471	470	2%	0207 MF							
R..0100	57.11.4333	33 K	2%	0207 MF							
R..0101	57.11.4183	18 K	2%	0207 MF							
R..0102	57.11.4563	56 K	2%	0207 MF							
R..0103	57.11.4563	56 K	2%	0207 MF							
R..0104	57.11.4223	2.2 K	2%	0207 MF							
R..0105	57.11.4331	330	2%	0207 MF							
R..0106	57.11.4334	330 K	2%	0207 MF							
R..0109	57.11.4183	18 K	2%	0207 MF							
R..0110	57.11.3752	7.5 K	1%	0207 MF							
R..0111	57.11.4221	220	2%	0207 MF							
R..0112	57.11.4153	15 K	2%	0207 MF							
R..0113	57.11.4221	220	2%	0207 MF							
R..0114	57.11.4333	33 K	2%	0207 MF							
R..0115	57.11.4221	220	2%	0207 MF							
R..0116	57.11.4101	100	2%	0207 MF							

STUDER (02) 87/11/15 ERASE AMPLIFIER BOARD A 1.777.560.00 PAGE 3

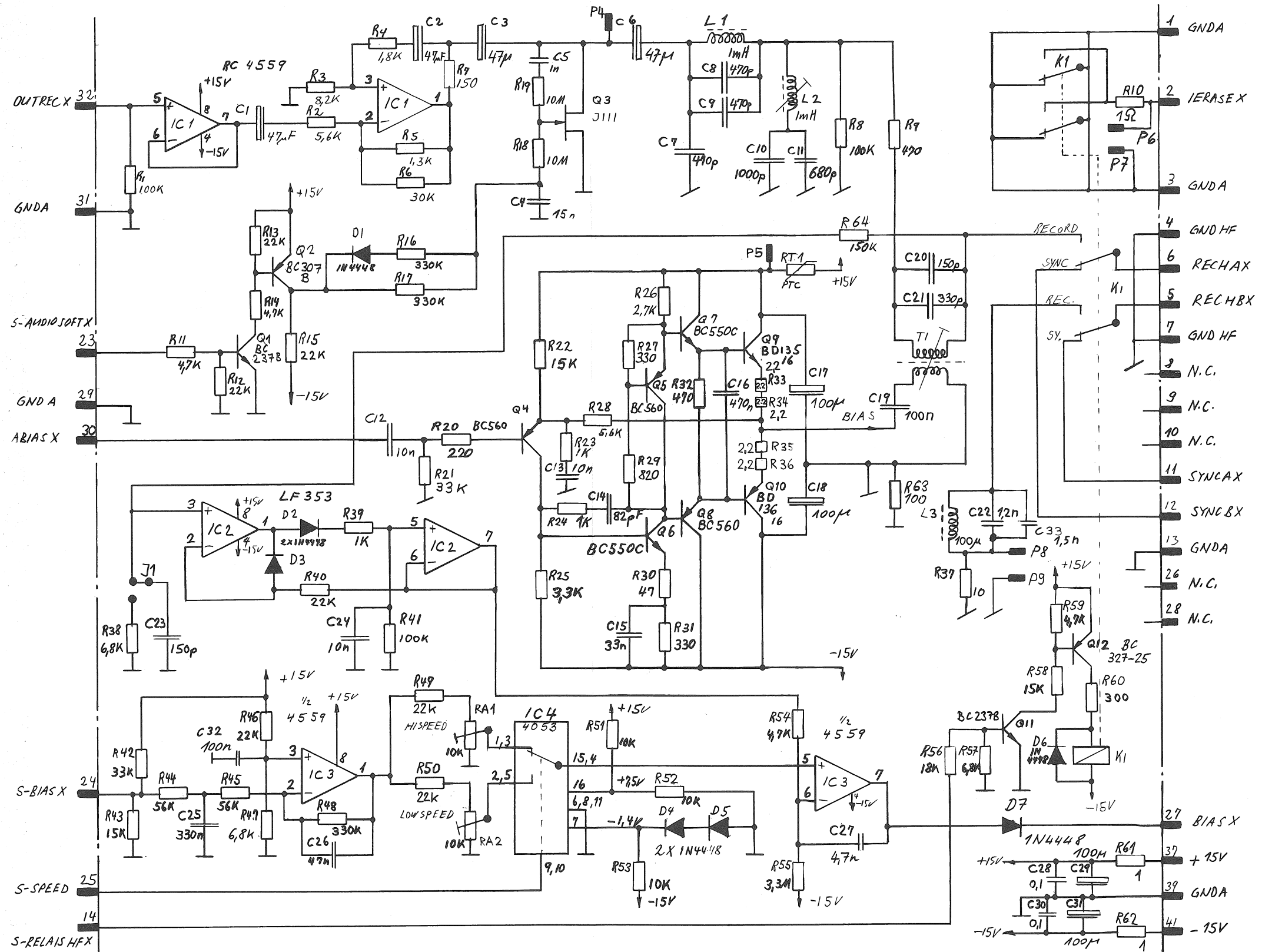
(01) 12.06.87 Value adjust  
 (02) 15.11.87 PCB Revisie  
 (03) 06.12.88 PCB Revisie

MANUFACTURER: AMP=AMP Incorporated,Lo=Loupot,Nat=National,Ph=Philips  
 NEC=Nippon Electric Corp.,Ra=Raytheon,SG=SGS/Ates,  
 Si=Siemens,Sig=Signetics,St=Studer,To= Toshiba,Thy=Thermalloy.

ORIG 86/09/16 (01) 87/08/12 (02) 87/11/15 (03) 88/12/06

STUDER (03) 88/12/06 ERASE AMPLIFIER BOARD A PL 1.777.560.00 PAGE 6

BIAS CONTROL BOARD 1.777.570.81



**Notes**  
 Emitter Q1 connects to GND HF 1.777.570.00 to reduce record clicks change R63 to 1 ohm. On board 1.777.570.00 emitter Q1 is on GND A resistor R63 is 100 ohms.

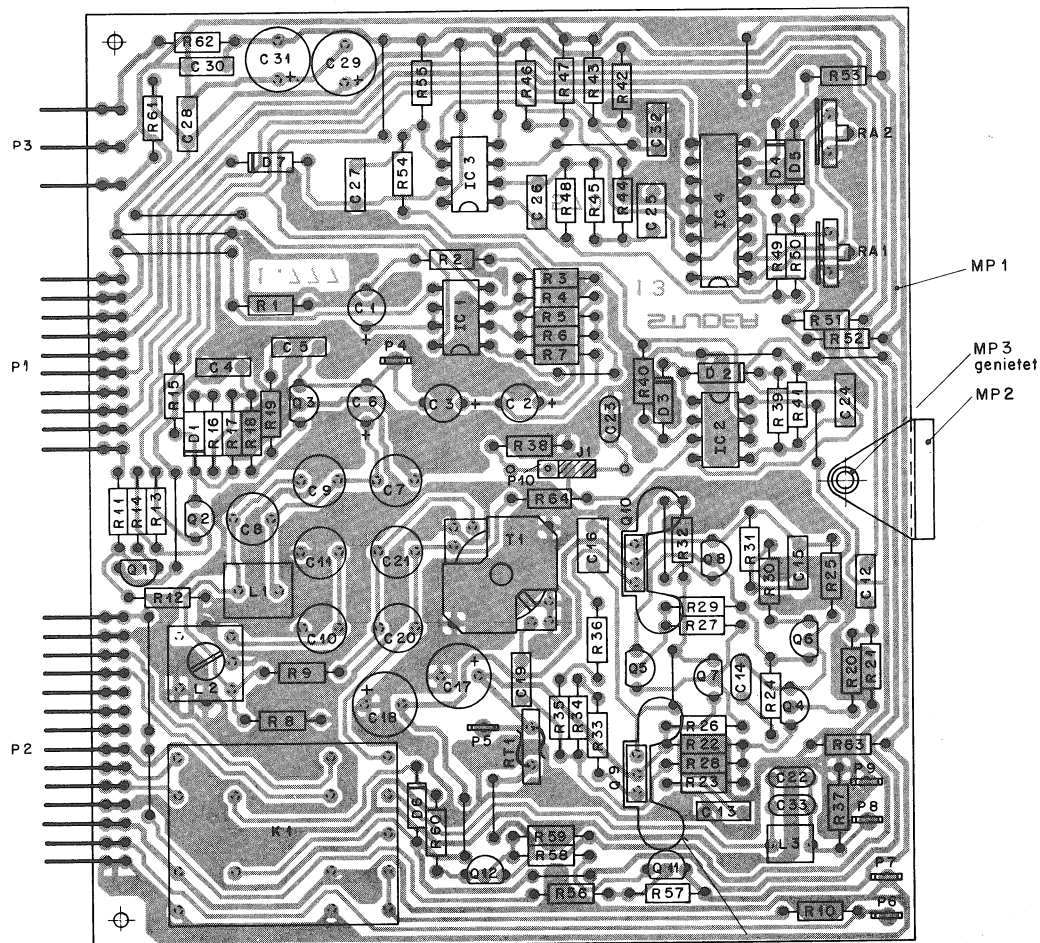
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BIAS CONTROL BOARD 1.777.570.81



MP 4 (2 x)

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
		C..0001	59.22.3470	47 U	-20%, 10V + EL
		C..0002	59.22.3470	47 U	-20%, 10V + EL
		C..0003	59.22.3470	47 U	-20%, 10V + EL
(00)		C..0004	59.06.0104	+1 U	10%, 63V + PETP
(01)		C..0005	59.06.0153	+015 U	10%, 63V + PETP
		C..0006	59.06.0102	1000 P	10%, 63V + PETP
		C..0007	59.22.3470	47 U	-20%, 10V + EL
		C..0008	59.05.2471	470 P	2.5%, 630V + PP
		C..0009	59.05.2471	470 P	2.5%, 630V + PP
		C..0010	59.05.2102	1000 P	2.5%, 630V + PP
(00)		C..0011	59.05.2681	680 P	2.5%, 630V + PP
(02)		C..0012	59.05.2471	470 P	2.5%, 630V + PP
		C..0013	59.06.0103	+01 U	10%, 63V + PETP
		C..0014	59.06.0103	+01 U	10%, 63V + PETP
		C..0015	59.06.0333	+033 U	10%, 63V + PETP
		C..0016	59.06.0474	+47 U	10%, 63V + PETP
		C..0017	59.22.5101	100 U	-20%, 25V + EL
		C..0018	59.22.5101	100 U	-20%, 25V + EL
(00)		C..0019	59.06.0105	+1 U	10%, 63V + PETP
(05)		C..0020	59.05.2151	150 P	2.5%, 630V + PP
		C..0021	59.05.2331	330 P	2.5%, 630V + PP
(00)		C..0022	59.32.4271	270 P	5%, N750 + CER
(04)		C..0023	59.32.4271	1.2 N	10%, 50V + CER
		C..0024	59.34.4151	150 P	5%, N750 + CER
		C..0025	59.06.5103	+01 U	5%, 63V + PETP
		C..0026	59.06.0334	+33 U	10%, 63V + PETP
		C..0027	59.06.0473	+047 U	10%, 63V + PETP
		C..0028	59.06.0472	4700 P	10%, 63V + PETP
		C..0029	59.06.0104	+1 U	10%, 63V + PETP
		C..0030	59.22.5101	100 U	-20%, 25V + EL
		C..0031	59.06.0104	+1 U	10%, 63V + PETP
(00)		C..0032	59.06.0104	+1 U	10%, 63V + PETP
		C..0033	59.06.0104	+1 U	10%, 63V + PETP

STUDER (05) 88/04/18 BIAS-CONTROL-BOARD A 1.777.570.00 PAGE 1

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	
(04)		C..0033	59.32.4152	1.5 N	20%, 50V + CER	
		D..0001	50.04.0125	IN 4448	SI	
		D..0002	50.04.0125	IN 4448	SI	
		D..0003	50.04.0125	IN 4448	SI	
		D..0004	50.04.0125	IN 4448	SI	
		D..0005	50.04.0125	IN 4448	SI	
		D..0006	50.04.0125	IN 4448	SI	
		D..0007	50.04.0125	IN 4448	SI	
		IC..0001	50.09.0107	RC 4559 NB; UPC 4559	RA+NEC	
		IC..0002	50.09.0101	LF 353 N; T1 072 CP	TI	
		IC..0003	50.09.0107	RC 4559 NB; UPC 4559	RA+NEC	
		IC..0004	50.07.0015	MC 14 0538CP; CD 4053 BCN+A	Mot+NS	
		JJ..0001	54.01.0021	1 pcs	JUMPER	Bg
		K..0001	56.04.0144	24V 4*U	220V/ 2A + PRINT	Omron/Zettler
		L..0001	62.02.3102	1 M	COIL + 10%	
(00)		L..0002	1.777.610.01	1 M	HF-COIL + 10%	St
(04)		L..0003	62.02.3101	100 MK	COIL + 10%	
(00)		MP..0001	1.777.570.11		BIAS-CONTROL-PCB	St
(03)		MP..0002	1.777.570.12		BIAS-CONTROL-PCB	St
		MP..0003	1.010.001.33		GRIP	St
		MP..0004	28.21.1360	02.25*5	TUBULARRIVET	St
		MP..0005	50.20.300.1	2 pcs	HEAT SINKS TO L26	St
		P..0001	54.01.0271	10 POL.	STRIP S IN ANGLE	AMP
		P..0002	54.01.0274	14 POL.	STRIP S IN ANGLE	AMP
		P..0003	54.01.0469	3 POL.	STRIP S IN ANGLE	AMP
		P..0004	54.02.0320	2.8*0.8	TEST POINT	Lo
		P..0005	54.02.0320	2.8*0.8	TEST POINT	Lo
		P..0006	54.02.0320	2.8*0.8	TEST POINT	Lo
		P..0007	54.02.0320	2.8*0.8	TEST POINT	Lo

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IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	
		P..0008	54.02.0320	2.8*0.8	TEST POINT	Lo
		P..0009	54.02.0320	2.8*0.8	TEST POINT	Lo
		P..0010	54.01.0020	3 pcs	PIN 0.6300.03 H=5.8/3.4	Bg
		Q..0001	50.03.0436	BC 237 B		TI; Sie+Ph
		Q..0002	50.03.0515	BC 307 B	+A	TI; Sie
		Q..0003	50.03.0216	J 111	+A	NS; Mot
		Q..0004	50.03.0496	BC 560	+A	Sie
		Q..0005	50.03.0496	BC 560	+A	Sie
		Q..0006	50.03.0407	BC 550 C (BC 109 C)		Sie+Ph
		Q..0007	50.03.0407	BC 550 C (BC 109 C)		Sie+Ph
		Q..0008	50.03.0496	BC 560	+A	Sie
		Q..0009	50.03.0495	BD 135-16		Ph; SGS+To
		Q..0010	50.03.0510	BD 136-16		Ph; SGS+To
		Q..0011	50.03.0436	BC 237 B		TI; Sie+Ph
		Q..0012	50.03.0351	BC 327-25		Mot+Sie
		R..0001	57.11.4104	100 K	2%, 0207 + MF	
		R..0002	57.11.4562	5.6 K	2%, 0207 + MF	
		R..0003	57.11.4822	8.2 K	2%, 0207 + MF	
		R..0004	57.11.4182	1.8 K	2%, 0207 + MF	
		R..0005	57.11.3132	1.3 K	2%, 0207 + MF	
		R..0006	57.11.3303	30 K	2%, 0207 + MF	
		R..0007	57.11.4131	150	2%, 0207 + MF	
		R..0008	57.11.4104	100 K	2%, 0207 + MF	
		R..0009	57.11.4471	470	2%, 0207 + MF	
		R..0010	57.11.4109	1	2%, 0207 + MF	
		R..0011	57.11.4472	4.7 K	2%, 0207 + MF	
		R..0012	57.11.4223	22 K	2%, 0207 + MF	
		R..0013	57.11.4223	22 K	2%, 0207 + MF	
		R..0014	57.11.4472	4.7 K	2%, 0207 + MF	
		R..0015	57.11.4223	22 K	2%, 0207 + MF	
		R..0016	57.11.4334	330 K	2%, 0207 + MF	
		R..0017	57.11.4334	330 K	2%, 0207 + MF	
		R..0018	57.11.5106	10 M	10%, 0207 + MF	
		R..0019	57.11.5106	10 M	10%, 0207 + MF	
		R..0020	57.11.4221	220	2%, 0207 + MF	

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IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
		R..0021	57.11.4333	33 K	2%, 0207 + MF
		R..0022	57.11.4153	15 K	2%, 0207 + MF
		R..0023	57.11.4102	1 K	2%, 0207 + MF
		R..0024	57.11.4102	1 K	2%, 0207 + MF
		R..0025	57.11.4332	3.3 K	2%, 0207 + MF
		R..0026	57.11.4272	2.7 K	2%, 0207 + MF
		R..0027	57.11.4331	330	2%, 0207 + MF
		R..0028	57.11.4562	5.6 K	2%, 0207 + MF
		R..0029	57.11.4821	820	2%, 0207 + MF
		R..0030	57.11.4470	47	2%, 0207 + MF
		R..0031	57.11.4331	330	2%, 0207 + MF
		R..0032	57.11.4471	470	2%, 0207 + MF
		R..0033	57.11.4229	2.2	2%, 0207 + MF
		R..0034	57.11.4229	2.2	2%, 0207 + MF
		R..0035	57.11.4229	2.2	2%, 0207 + MF
		R..0036	57.11.4229	2.2	2%, 0207 + MF
		R..0037	57.11.4100	10	2%, 0207 + MF
		R..0038	57.11.4104	100 K	2%, 0207 + MF
		R..0039	57.11.4102	1 K	2%, 0207 + MF
		R..0040	57.11.4223	22 K	2%, 0207 + MF
		R..0041	57.11.4104	100 K	2%, 0207 + MF
		R..0042	57.11.4333	33 K	2%, 0207 + MF
		R..0043	57.11.4153	15 K	2%, 0207 + MF
		R..0044	57.11.4563	56 K	2%, 0207 + MF
		R..0045	57.11.4563	56 K	2%, 0207 + MF
		R..0046	57.11.4223	22 K	2%, 0207 + MF
		R..0047	57.11.4682	6.8 K	2%, 0207 + MF
		R..0048	57.11.4334	330 K	2%, 0207 + MF
		R..0049	57.11.4223	22 K	2%, 0207 + MF
		R..0050	57.11.4223	22 K	2%, 0207 + MF
		R..0051	57.11.4103	10 K	2%, 0207 + MF
		R..0052	57.11.4103	10 K	2%, 0207 + MF
		R..0053	57.11.4103	10 K	2%, 0207 + MF
		R..0054	57.11.4472	4.7 K	2%, 0207 + MF
		R..0055	57.11.4334	330 K	2%, 0207 + MF
		R..0056	57.11.4183	18 K	2%, 0207 + MF
		R..0057	57.11.4682	6.8 K	2%, 0207 + MF

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IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	
		R..0058	57.11.4153	15 K	2%, 0207 + MF	
		R..0059	57.11.4472	4.7 K	2%, 0207 + MF	
		R..0060	57.11.3301	300	2%, 0207 + MF	
		R..0061	57.11.4109	1	2%, 0207 + MF	
		R..0062	57.11.4109	1	2%, 0207 + MF	
(00)		R..0063	57.11.4101	100	2%, 0207 + MF	
(06)		R..0064	57.11.4109	1	2%, 0207 + MF	
		R..0065	57.11.4156	150 K	2%, 0207 + MF	
		RA..0001	58.02.4103	10 K	20%, +1 M + PCSCH	
		RA..0002	58.02.4103	10 K	20%, +1 M + PCSCH	
		RT..0001	57.92.1181	180 MA	56V + PTC	
		T..0001	1.322.600.00		BIAS TRANSFORMER	St

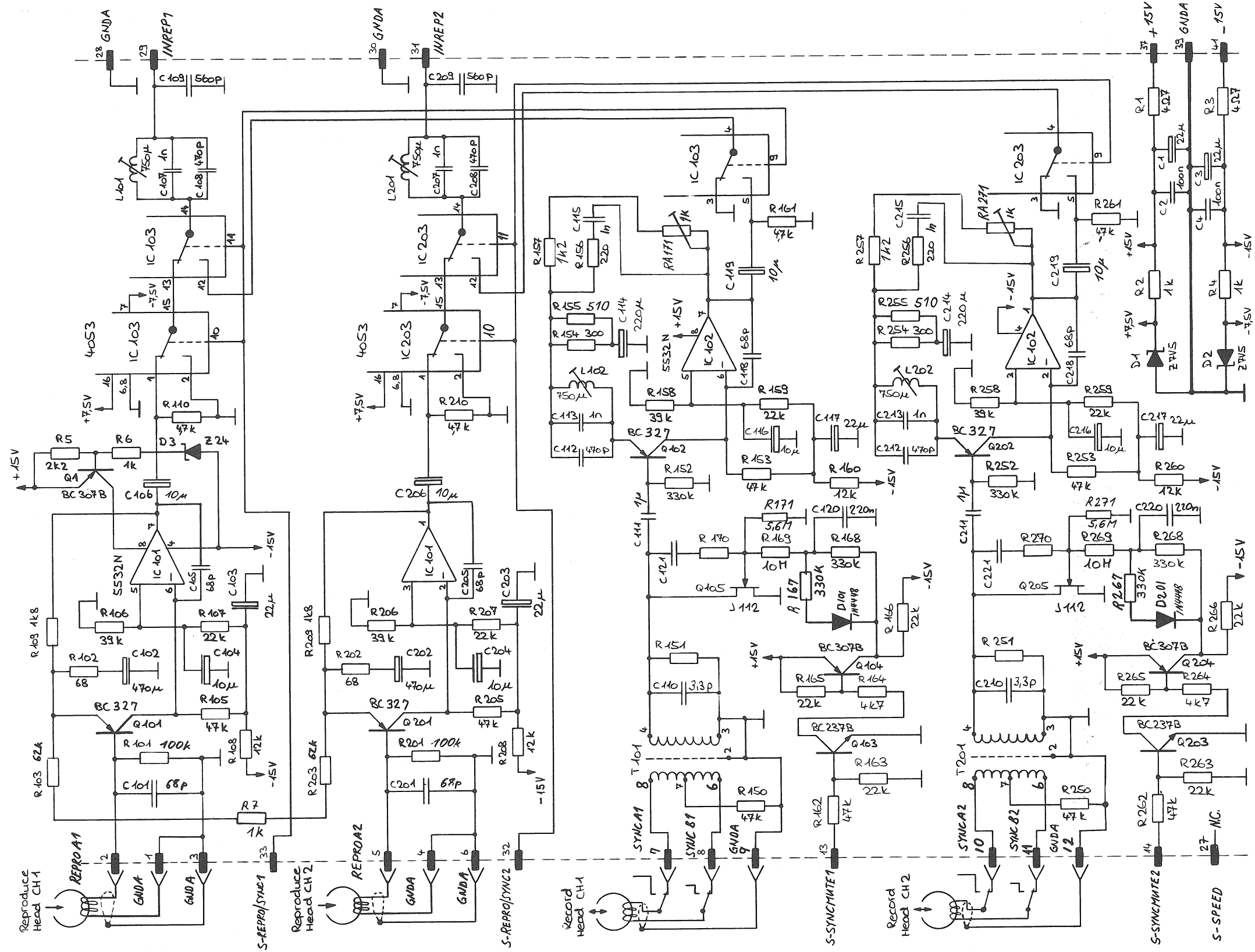
STUDER (06) 88/12/06 BIAS-CONTROL-BOARD A PL 1.777.570.00 PAGE 5

(01) 07.04.87 SW Adaptation  
 (02) 12.08.87 Value adjust  
 (03) 15.11.87 PCB Revise  
 (04) 27.01.88 Value adjust  
 (05) 18.04.88 Value adjust  
 (06) 06.12.88 Value adjust

MANUFACTURER: AMP=AMP Incorporated+Mot=Motorola+NEC=Nippon Electric Corp.+  
 NS=National Semiconductors+Ph=Philips+Ra=Raytheon+SGS=SGS/Ates+  
 Sie=Siemens+St=Studer+TI=Texas Instruments+To=Toshiba+  
 Lo=Loupot+B=Berg

ORIG 86/09/16 (01) 87/04/37 (02) 87/08/12 (03) 87/11/15 (04) 88/01/27  
 (05) 88/04/18 (06) 88/12/06

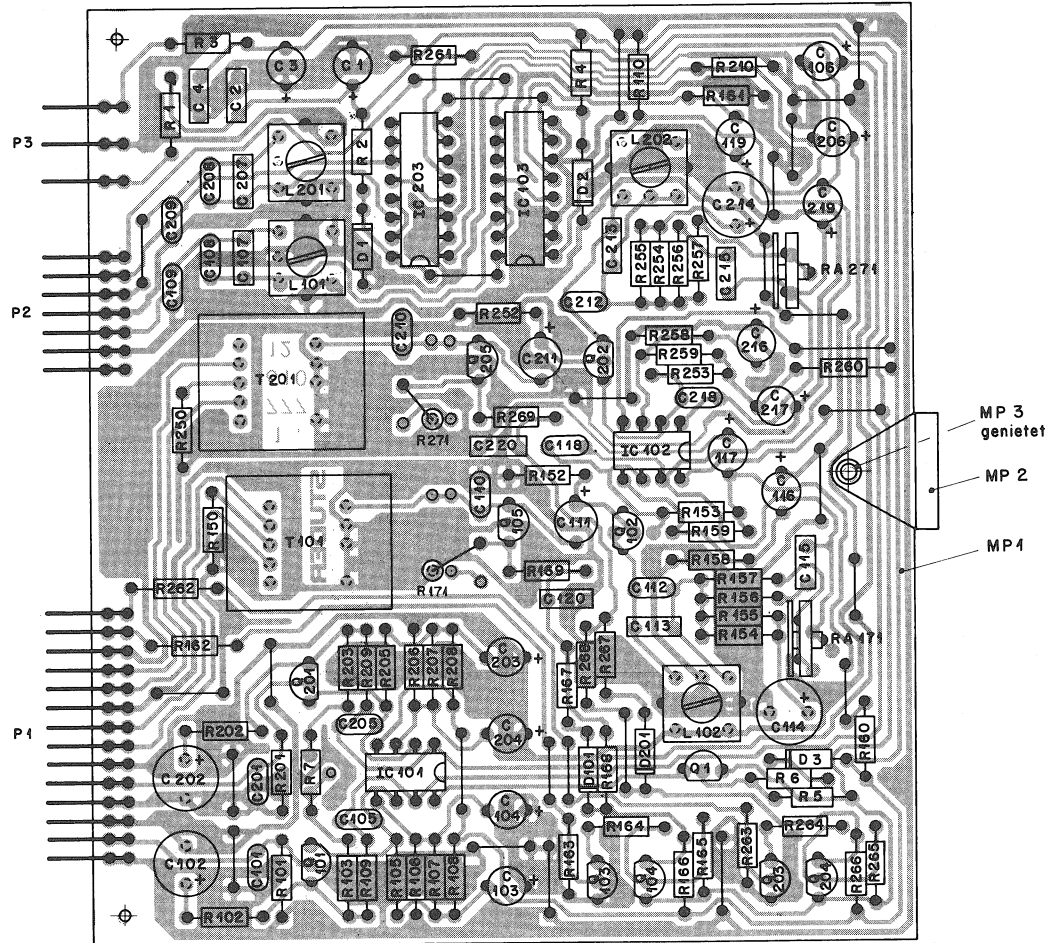
PREAMPLIFIER BOARD 1.777.610.00



Notes:  
 C111 and C211 have been reduced to 1µF and resistors R171 and R271 added, each 5.6Mohms to reduce start/stop clicks.

028.1.87 B	1	7.4.87 J. v. Epi	2	12.8.87 J. v. Epi	3	06.12.88 J. v. Epi
C270						
PREAMPLIFIER BOARD						
"ESE" SC 1.777.610.00						
						PAGE 1 OF 1

PREAMPLIFIER BOARD 1.777.610.00



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0001	59.22.5220	22 U	-20%	25V + EL	
C..0002	59.06.0104	+1 U	10%	63V + PETP	
C..0003	59.22.5220	22 U	-20%	25V + EL	
C..0004	59.06.0104	+1 U	10%	63V + PETP	
C..0101	59.34.4680	68 P	5%	N750 + CER	
C..0102	59.22.3471	470 U	-20%	10V + EL	
C..0103	59.22.5220	22 U	-20%	25V + EL	
C..0104	59.22.6100	10 U	-20%	40V + EL	
C..0105	59.34.4680	68 P	5%	N750 + CER	
C..0106	59.22.3470	47 U	-20%	10V + EL	
C..0107	59.22.6100	10 U	-20%	35V + EL	
C..0108	59.34.5471	470 P	5%	N1500 + CER	
C..0109	59.34.5561	560 P	5%	N1500 + CER	
C..0110	59.34.0339	3.3 P	5%	P100 + CER	
C..0111	59.22.4131	100 U	-20%	16V + EL	
C..0112	59.06.0105	1 U	10%	50V + PETP	
C..0113	59.34.5471	470 P	5%	N1500 + CER	
C..0114	59.22.3221	220 U	-20%	10V + EL	
C..0115	59.22.5102	1000 P	5%	63V + PETP	
C..0116	59.22.6100	10 U	-20%	40V + EL	
C..0117	59.22.5220	22 U	-20%	25V + EL	
C..0118	59.34.4680	68 P	5%	N750 + CER	
C..0119	59.22.3470	47 U	-20%	10V + EL	
C..0120	59.22.6100	10 U	-20%	35V + EL	
C..0121	59.06.5104	+1 U	5%	63V + PETP	
C..0122	59.06.5224	+2 U	5%	63V + PETP	
C..0123	59.06.5102	1000 P	5%	63V + PETP	
C..0124	59.34.4680	68 P	not connected		
C..0201	59.22.3471	470 P	5%	N750 + CER	
C..0202	59.22.5220	22 U	-20%	10V + EL	
C..0203	59.22.6100	10 U	-20%	25V + EL	
C..0204	59.22.6100	10 U	-20%	40V + EL	
C..0205	59.34.4680	68 P	5%	N750 + CER	
C..0206	59.22.3470	47 U	-20%	10V + EL	
C..0207	59.22.6100	10 U	-20%	35V + EL	

STUDER (04) 88/12/06 PREAMPLIFIER-BOARD A PL 1.777.610.00 PAGE 1

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R..0110	57.11.4473	47 K	2%	0207 + MF	
R..0111	57.11.4472	4.7 K	2%	0207 + MF	
R..0112	57.11.4473	47 K	2%	0207 + MF	
R..0113	57.11.4473	47 K	not connected		
R..0114	57.11.4473	47 K	2%	0207 + MF	
R..0115	57.11.4473	47 K	2%	0207 + MF	
R..0116	57.11.4473	47 K	2%	0207 + MF	
R..0117	57.11.4473	47 K	2%	0207 + MF	
R..0118	57.11.4473	47 K	2%	0207 + MF	
R..0119	57.11.4473	47 K	2%	0207 + MF	
R..0120	57.11.4473	47 K	2%	0207 + MF	
R..0121	57.11.4473	47 K	2%	0207 + MF	
R..0122	57.11.4473	47 K	2%	0207 + MF	
R..0123	57.11.4473	47 K	2%	0207 + MF	
R..0124	57.11.4473	47 K	2%	0207 + MF	
R..0125	57.11.4473	47 K	2%	0207 + MF	
R..0126	57.11.4473	47 K	2%	0207 + MF	
R..0127	57.11.4473	47 K	2%	0207 + MF	
R..0128	57.11.4473	47 K	2%	0207 + MF	
R..0129	57.11.4473	47 K	2%	0207 + MF	
R..0130	57.11.4473	47 K	2%	0207 + MF	
R..0131	57.11.4473	47 K	2%	0207 + MF	
R..0132	57.11.4473	47 K	2%	0207 + MF	
R..0133	57.11.4473	47 K	2%	0207 + MF	
R..0134	57.11.4473	47 K	2%	0207 + MF	
R..0135	57.11.4473	47 K	2%	0207 + MF	
R..0136	57.11.4473	47 K	2%	0207 + MF	
R..0137	57.11.4473	47 K	2%	0207 + MF	
R..0138	57.11.4473	47 K	2%	0207 + MF	
R..0139	57.11.4473	47 K	2%	0207 + MF	
R..0140	57.11.4473	47 K	2%	0207 + MF	
R..0141	57.11.4473	47 K	2%	0207 + MF	
R..0142	57.11.4473	47 K	2%	0207 + MF	
R..0143	57.11.4473	47 K	2%	0207 + MF	
R..0144	57.11.4473	47 K	2%	0207 + MF	
R..0145	57.11.4473	47 K	2%	0207 + MF	
R..0146	57.11.4473	47 K	2%	0207 + MF	
R..0147	57.11.4473	47 K	2%	0207 + MF	
R..0148	57.11.4473	47 K	2%	0207 + MF	
R..0149	57.11.4473	47 K	2%	0207 + MF	
R..0150	57.11.4473	47 K	2%	0207 + MF	
R..0151	57.11.4473	47 K	2%	0207 + MF	
R..0152	57.11.4473	47 K	2%	0207 + MF	
R..0153	57.11.4473	47 K	2%	0207 + MF	
R..0154	57.11.4473	47 K	2%	0207 + MF	
R..0155	57.11.4473	47 K	2%	0207 + MF	
R..0156	57.11.4473	47 K	2%	0207 + MF	
R..0157	57.11.4473	47 K	2%	0207 + MF	
R..0158	57.11.4473	47 K	2%	0207 + MF	
R..0159	57.11.4473	47 K	2%	0207 + MF	
R..0160	57.11.4473	47 K	2%	0207 + MF	
R..0161	57.11.4473	47 K	2%	0207 + MF	
R..0162	57.11.4473	47 K	2%	0207 + MF	
R..0163	57.11.4473	47 K	2%	0207 + MF	
R..0164	57.11.4473	47 K	2%	0207 + MF	
R..0165	57.11.4473	47 K	2%	0207 + MF	
R..0166	57.11.4473	47 K	2%	0207 + MF	
R..0167	57.11.4473	47 K	2%	0207 + MF	
R..0168	57.11.4473	47 K	2%	0207 + MF	
R..0169	57.11.4473	47 K	2%	0207 + MF	
R..0170	57.11.4473	47 K	2%	0207 + MF	
R..0171	57.11.4473	47 K	2%	0207 + MF	
R..0172	57.11.4473	47 K	2%	0207 + MF	
R..0173	57.11.4473	47 K	2%	0207 + MF	
R..0174	57.11.4473	47 K	2%	0207 + MF	
R..0175	57.11.4473	47 K	2%	0207 + MF	
R..0176	57.11.4473	47 K	2%	0207 + MF	
R..0177	57.11.4473	47 K	2%	0207 + MF	
R..0178	57.11.4473	47 K	2%	0207 + MF	
R..0179	57.11.4473	47 K	2%	0207 + MF	
R..0180	57.11.4473	47 K	2%	0207 + MF	
R..0181	57.11.4473	47 K	2%	0207 + MF	
R..0182	57.11.4473	47 K	2%	0207 + MF	
R..0183	57.11.4473	47 K	2%	0207 + MF	
R..0184	57.11.4473	47 K	2%	0207 + MF	
R..0185	57.11.4473	47 K	2%	0207 + MF	
R..0186	57.11.4473	47 K	2%	0207 + MF	
R..0187	57.11.4473	47 K	2%	0207 + MF	
R..0188	57.11.4473	47 K	2%	0207 + MF	
R..0189	57.11.4473	47 K	2%	0207 + MF	
R..0190	57.11.4473	47 K	2%	0207 + MF	
R..0191	57.11.4473	47 K	2%	0207 + MF	
R..0192	57.11.4473	47 K	2%	0207 + MF	
R..0193	57.11.4473	47 K	2%	0207 + MF	
R..0194	57.11.4473	47 K	2%	0207 + MF	
R..0195	57.11.4473	47 K	2%	0207 + MF	
R..0196	57.11.4473	47 K	2%	0207 + MF	
R..0197	57.11.4473	47 K	2%	0207 + MF	
R..0198	57.11.4473	47 K	2%	0207 + MF	
R..0199	57.11.4473	47 K	2%	0207 + MF	
R..0200	57.11.4473	47 K	2%	0207 + MF	

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IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0207	59.06.5102	1000 P	5%	63V + PETP	
C..0208	59.34.5471	470 P	5%	N1500 + CER	
C..0209	59.34.5561	560 P	5%	N1500 + CER	
C..0210	59.34.0339	3.3 P	5%	P100 + CER	
C..0211	59.22.4131	100 U	-20%	16V + EL	
C..0212	59.06.0105	1 U	10%	50V + PETP	
C..0213	59.34.5471	470 P	5%	N1500 + CER	
C..0214	59.22.5102	1000 P	5%	63V + PETP	
C..0215	59.22.3221	220 U	-20%	10V + EL	
C..0216	59.22.6100	10 U	-20%	40V + EL	
C..0217	59.22.5220	22 U	-20%	25V + EL	
C..0218	59.34.4680	68 P	5%	N750 + CER	
C..0219	59.22.3470	47 U	-20%	10V + EL	
C..0220	59.22.6100	10 U	-20%	35V + EL	
C..0221	59.06.5104	+1 U	5%	63V + PETP	
C..0222	59.06.5224	+2 U	5%	63V + PETP	
C..0223	59.06.5102	1000 P	5%	63V + PETP	
C..0224	59.34.4680	68 P	not connected		
C..0225	59.06.1103	7.5V	5%	40H + Z	ITT+Mot
C..0226	59.06.1103	7.5V	5%	40H + Z	ITT+Mot
C..0227	59.06.1121	24 V	5%	40H + Z	ITT+Mot
C..0228	59.34.0125	1N 4448	SI		ITT+Mot
C..0229	59.06.0125	1N 4448	SI		ITT+Mot
IC..0101	50.09.0105	NE 5532 N			SiG
IC..0102	50.09.0105	NE 5532 N			SiG
IC..0103	50.07.0015	MC 14 053BCP+CD 4053 BCN+A			Not+NS
IC..0203	50.07.0015	MC 14 053BCP+CD 4053 BCN+A			Not+NS
L..0101	1.777.610.01	HF-COIL			St
L..0102	1.777.610.01	HF-COIL			St
L..0201	1.777.610.01	HF-COIL			St
L..0202	1.777.610.01	HF-COIL			St
MP..0001	1.777.610.11	PREAMPLIFIER-PCB			St

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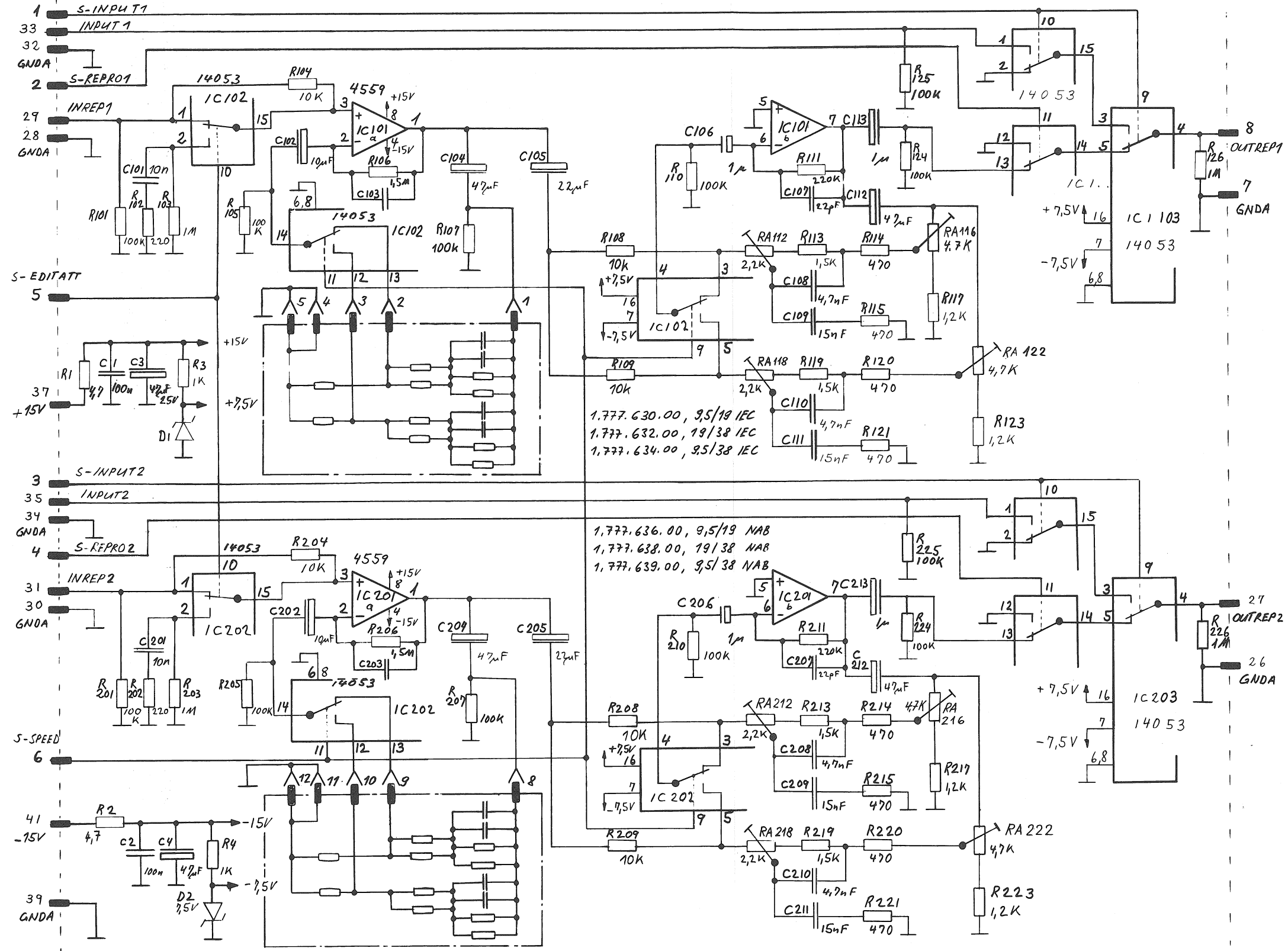
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R..0250	57.11.4473	47 K	2%	0207 + MF	
R..0251	57.11.4473	47 K	2%	0207 + MF	
R..0252	57.11.4473	47 K	2%	0207 + MF	
R..0253	57.11.4473	47 K	2%	0207 + MF	
R..0254	57.11.4473	47 K	2%	0207 + MF	
R..0255	57.11.4473	47 K	2%	0207 + MF	
R..0256	57.11.4473	47 K	2%	0207 + MF	
R..0257	57.11.4473	47 K	2%	0207 + MF	
R..0258	57.11.4473	47 K	2%	0207 + MF	
R..0259	57.11.4473	47 K	2%	0207 + MF	
R..0260	57.11.4473	47 K	2%	0207 + MF	
R..0261	57.11.4473	47 K	2%	0207 + MF	
R..0262	57.11.4473	47 K	2%	0207 + MF	
R..0263	57.11.4473	47 K	2%	0207 + MF	
R..0264	57.11.4473	47 K	2%	0207 + MF	
R..0265	57.11.4473	47 K	2%	0207 + MF	
R..0266	57.11.4473	47 K	2%	0207 + MF	
R..0267	57.11.4473	47 K	2%	0207 + MF	
R..0268	57.11.4473	47 K	2%	0207 + MF	
R..0269	57.11.4473	47 K	2%	0207 + MF	
R..0270	57.11.4473	47 K	2%	0207 + MF	
R..0271	57.11.4473	47 K	2%	0207 + MF	
R..0272	57.11.4473	47 K	2%	0207 + MF	
RA..0171	58.02.4132	1 K	20%	-1 W + PCSCH	St
RA..0271	58.02.4132	1 K	20%	-1 W + PCSCH	St
TA..0101	1.022.402.00	1:10		INPUT TRANSFORMER	St
TA..0201	1.022.402.00	1:10		INPUT TRANSFORMER	St

STUDER (04) 88/12/06 PREAMPLIFIER-BOARD A PL 1.777.610.00 PAGE 5

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
NP..0001	1.777.610.12	PREAMPLIFIER-PCB			St
MP..0002	1.010.001.33	GRIP			St
MP..0003	28.21.1360	TABULARRIVET			St
P..0001	54.01.0274	1/4 POL.		STRIP CIS ANGLE	AMP



REPRODUCE EQUALIZER BOARD 1.777.620.00

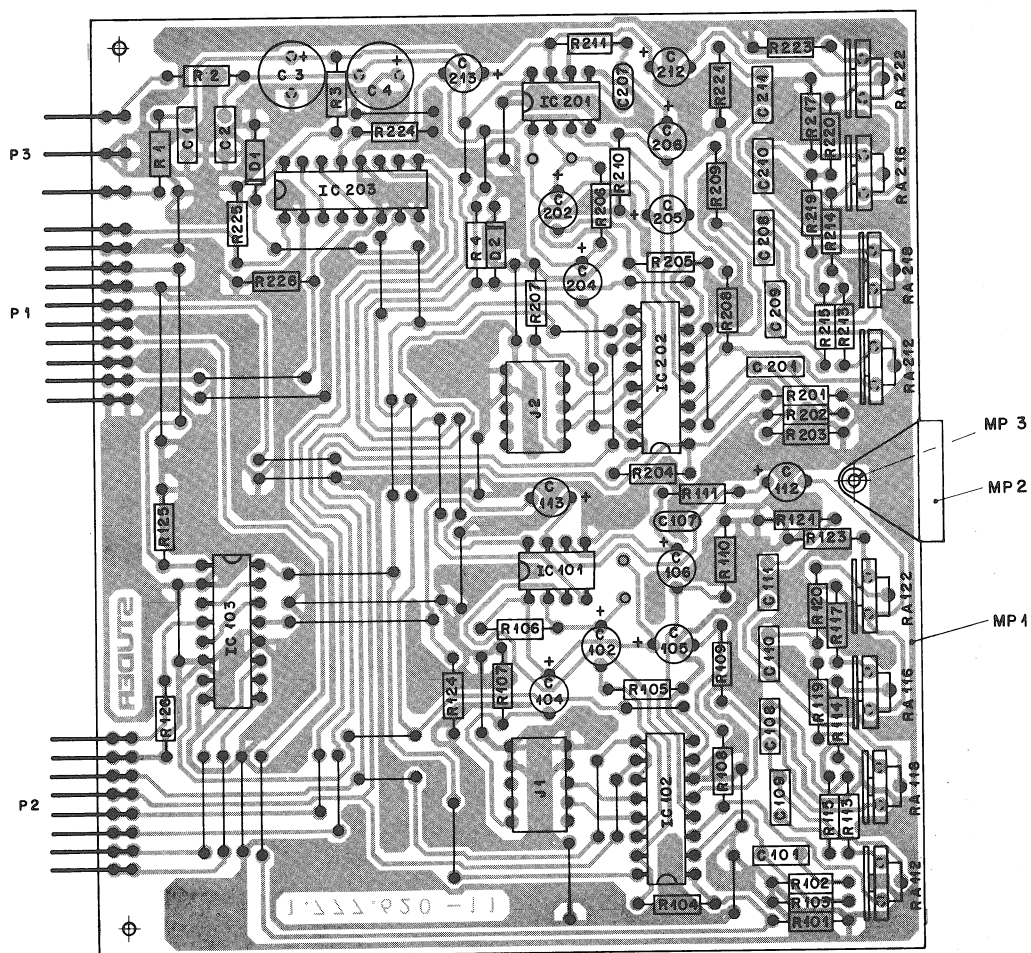


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 C270  
 REPRODUCE EQUALIZER BOARD "ESE" SC 1.777.620.00  
 STUDER

PAGE 1 OF 1



REPRODUCE EQUALIZER BOARD 1.777.620.00



IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0001		59-06-0104	-1 U	10% 63V + PETP	
C..0002		59-06-0104	-1 U	10% 63V + PETP	
C..0003		59-22-5470	47 U	-20% 25V + EL	
C..0004		59-22-5470	47 U	-20% 25V + EL	
C..0101		59-06-5153	01 U	5% 63V + PETP	
C..0102		59-22-6100	10 U	-20% 40V + EL	
C..0103				not connected	
C..0104		59-22-3470	47 U	-20% 10V + EL	
C..0105		59-22-5220	22 U	-20% 25V + EL	
(00) C..0106		59-22-6100	10 U	-20% 40V + EL	
(01) C..0106		59-22-8109	1 U	-20% 63V + EL	
C..0107		59-34-2220	22 P	5% N150 + CER	
C..0108		59-06-5472	4700 P	5% 63V + PETP	
C..0109		59-06-5153	+015 U	5% 63V + PETP	
C..0110		59-06-5472	4700 P	5% 63V + PETP	
C..0111		59-06-5153	+015 U	5% 63V + PETP	
C..0112		59-22-3470	47 U	-20% 10V + EL	
(00) C..0113		59-22-6100	10 U	-20% 40V + EL	
(01) C..0113		59-22-8109	1 U	-20% 63V + EL	
C..0201		59-06-5103	.01 U	5% 63V + PETP	
C..0202		59-22-6100	10 U	-20% 40V + EL	
C..0203				not connected	
C..0204		59-22-3470	47 U	-20% 10V + EL	
C..0205		59-22-5220	22 U	-20% 25V + EL	
(00) C..0206		59-22-6100	10 U	-20% 40V + EL	
(01) C..0206		59-22-8109	1 U	-20% 63V + EL	
C..0207		59-34-2220	22 P	5% N150 + CER	
C..0208		59-06-5472	4700 P	5% 63V + PETP	
C..0209		59-06-5153	+015 U	5% 63V + PETP	
C..0210		59-06-5472	4700 P	5% 63V + PETP	
C..0211		59-06-5153	+015 U	5% 63V + PETP	
(00) C..0212		59-22-3470	47 U	-20% 10V + EL	
(01) C..0213		59-22-6100	10 U	-20% 40V + EL	
(01) C..0213		59-22-8109	1 U	-20% 63V + EL	
D..0001		50-04-1103	7.5V	5% .40W Z	ITT-Mot+Ph
D..0002		50-04-1103	7.5V	5% .40W Z	

STUDER (01) 87/04/07 REPRO. EQUALIZER BOARD A 1.777.620.00 PAGE 1

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
RA-0222		58-02-4472	4.7 K	20% .1 W + PCSCH	

(01) 07-04-87 SW Adaptation  
 MANUFACTURER: AMP=AMP Incorporated,ITT=Intermetall,Mot=Motorola,Ph=Philips  
 NEC=Nippon Electric Corp.,NS=National Semiconductors  
 Ra=Raytheon,St=Studer.  
 DRIG 86/09/16 (01) 87/04/07  
 STUDER (01) 87/04/07 REPRO. EQUALIZER BOARD A 1.777.620.00 PAGE 4

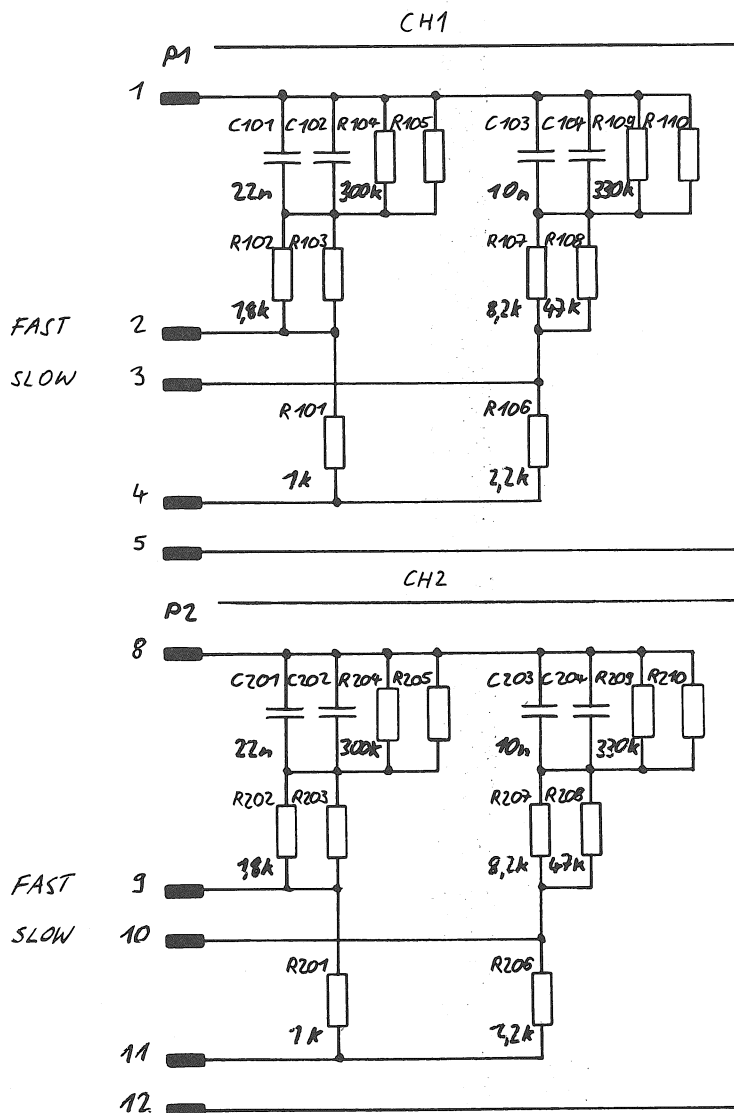
IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
IC-0101		50-09-0107		MC 4559 NB, UPC 4559	RA+NEC
IC-0102		50-07-0015		MC 14 053BCP,CD 4053 BCP+A	Mot+NS
IC-0103		50-07-0015		MC 14 053BCP,CD 4053 BCP+A	RA+NEC
IC-0201		50-09-0107		MC 4559 NB, UPC 4559	Mot+NS
IC-0202		50-07-0015		MC 14 053BCP,CD 4053 BCP+A	Mot+NS
IC-0203		50-07-0015		MC 14 053BCP,CD 4053 BCP+A	Mot+NS
J..0001		54-01-0305	5 POL.	STRIP CIS PARLEL	AMP
J..0002		54-01-0305	5 POL.	STRIP CIS PARLEL	
MP-0001		1-777-620-11		PLAYBACK EQUALIZER PCB	St
MP-0002		1-010-001-33		GRIP	St
MP-0003		28-21-1360	02-25*5	TUBULARRIVET	
P..0001		54-01-0271	10 POL.	STRIP CIS ANGLE	
P..0002		54-01-0270	8 POL.	STRIP CIS ANGLE	
P..0003		54-01-0469	3 POL.	STRIP CIS ANGLE	
R..0001		57-11-4479	4.7	2% 0207 + MF	
R..0002		57-11-4479	4.7	2% 0207 + MF	
R..0003		57-11-4102	1 K	2% 0207 + MF	
R..0004		57-11-4102	1 K	2% 0207 + MF	
R..0101		57-11-4104	100 K	2% 0207 + MF	
R..0102		57-11-4221	220	2% 0207 + MF	
R..0103		57-11-4105	1 M	5% 0207 + MF	
R..0104		57-11-4103	10 K	2% 0207 + MF	
R..0105		57-11-4104	100 K	2% 0207 + MF	
R..0106		57-11-4155	1.5 M	5% 0207 + MF	
R..0107		57-11-4104	100 K	2% 0207 + MF	
R..0108		57-11-4153	15 K	2% 0207 + MF	
R..0109		57-11-4153	15 K	2% 0207 + MF	
R..0110		57-11-4104	100 K	2% 0207 + MF	
R..0111		57-11-4224	220 K	2% 0207 + MF	
R..0112		57-11-4152	1.5 K	2% 0207 + MF	
R..0113		57-11-4471	470	2% 0207 + MF	
R..0114		57-11-4471	470	2% 0207 + MF	
R..0115		57-11-4471	470	2% 0207 + MF	
R..0117		57-11-4122	1.2 K	2% 0207 + MF	

STUDER (01) 87/04/07 REPRO. EQUALIZER BOARD A 1.777.620.00 PAGE 2

IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R..0119		57-11-4152	1.5 K	2% 0207 + MF	
R..0120		57-11-4471	470	2% 0207 + MF	
R..0121		57-11-4471	470	2% 0207 + MF	
R..0122		57-11-4122	1.2 K	2% 0207 + MF	
R..0123		57-11-4104	100 K	2% 0207 + MF	
R..0124		57-11-4104	100 K	2% 0207 + MF	
R..0125		57-11-4104	100 K	2% 0207 + MF	
R..0126		57-11-4105	1 M	5% 0207 + MF	
R..0201		57-11-4104	100 K	2% 0207 + MF	
R..0202		57-11-4221	220	2% 0207 + MF	
R..0203		57-11-4105	1 M	5% 0207 + MF	
R..0204		57-11-4103	10 K	2% 0207 + MF	
R..0205		57-11-4104	100 K	2% 0207 + MF	
R..0206		57-11-4155	1.5 M	5% 0207 + MF	
R..0207		57-11-4104	100 K	2% 0207 + MF	
R..0208		57-11-4153	15 K	2% 0207 + MF	
R..0209		57-11-4153	15 K	2% 0207 + MF	
R..0210		57-11-4104	100 K	2% 0207 + MF	
R..0211		57-11-4224	220 K	2% 0207 + MF	
R..0213		57-11-4152	1.5 K	2% 0207 + MF	
R..0214		57-11-4471	470	2% 0207 + MF	
R..0215		57-11-4471	470	2% 0207 + MF	
R..0217		57-11-4122	1.2 K	2% 0207 + MF	
R..0219		57-11-4152	1.5 K	2% 0207 + MF	
R..0220		57-11-4471	470	2% 0207 + MF	
R..0221		57-11-4471	470	2% 0207 + MF	
R..0223		57-11-4122	1.2 K	2% 0207 + MF	
R..0224		57-11-4104	100 K	2% 0207 + MF	
R..0225		57-11-4104	100 K	2% 0207 + MF	
R..0226		57-11-4105	1 M	5% 0207 + MF	
RA-0112		58-02-4222	2.2 K	20% .1 W + PCSCH	
RA-0116		58-02-4472	4.7 K	20% .1 W + PCSCH	
RA-0118		58-02-4222	2.2 K	20% .1 W + PCSCH	
MA-0122		58-02-4472	4.7 K	20% .1 W + PCSCH	
RA-0212		58-02-4222	2.2 K	20% .1 W + PCSCH	
RA-0216		58-02-4472	4.7 K	20% .1 W + PCSCH	
RA-0218		58-02-4222	2.2 K	20% .1 W + PCSCH	

STUDER (01) 87/04/07 REPRO. EQUALIZER BOARD A 1.777.620.00 PAGE 3

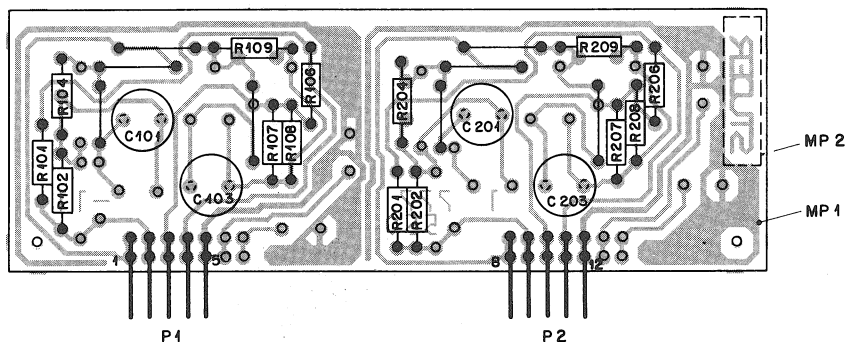
REPRO SPEED BOARD 9.5/19 IEC 1.777.630.00



**Note:**  
 Components with no value indication are not installed.

① 14.2.873 F <sub>1</sub>	○ ..	○ ..	○ ..	○ ..
	C270			PAGE 1 OF 1
STUDER	REPRO SPEED B. 9.5 / 19 IEC (3,75 / 7,5)	SC	1.777.630.00	

REPRO SPEED BOARD 9.5/19 IEC 1.777.630.00



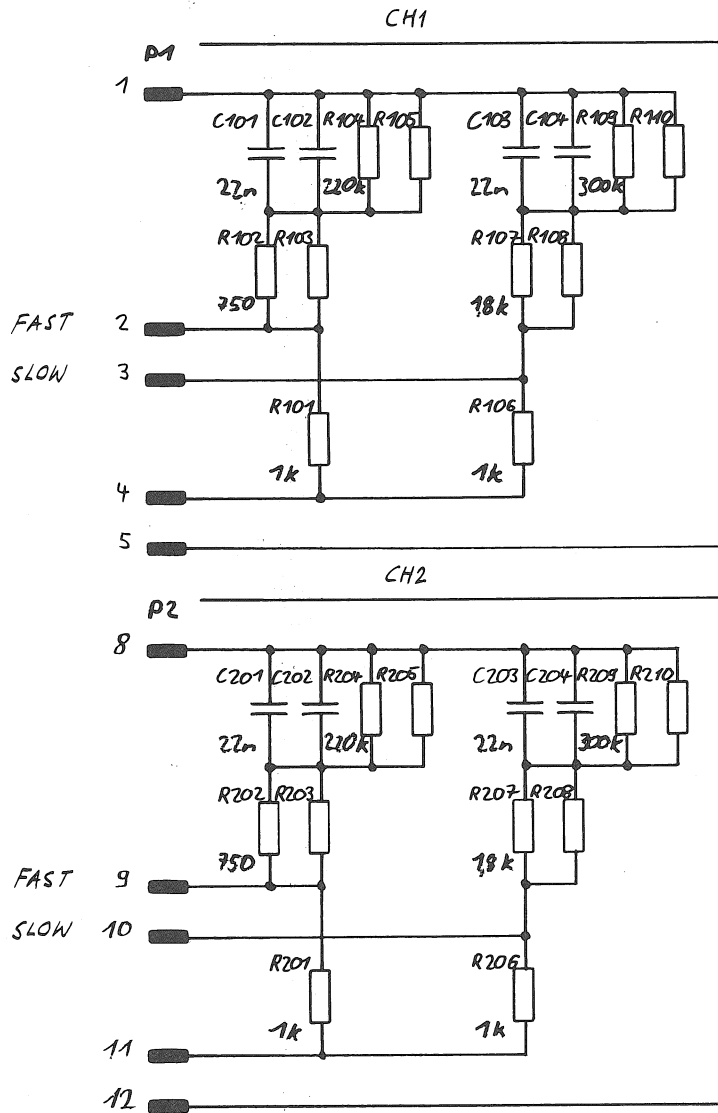
IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0101		59.05.2223	.022 U	2.5%, 63V, PP	
C..0103		59.05.2103	.01 U	2.5%, 63V, PP	
C..0201		59.05.2223	.022 U	2.5%, 63V, PP	
C..0203		59.05.2103	.01 U	2.5%, 63V, PP	
MP.0001		1.777.550.11		REPRO. SPEED BOARD PCB	
MP.0002		1.777.630.01		Label	
P..0001		54.01.0269	5 POL.	STRIP CIS	
P..0002		54.01.0269	5 POL.	STRIP CIS	
R..0101		57.11.3102	1 K	1%, 0207, MF	
R..0102		57.11.3182	1.8 K	1%, 0207, MF	
R..0104		57.11.3304	300 K	1%, 0207, MF	
R..0106		57.11.3222	2.2 K	1%, 0207, MF	
R..0107		57.11.3822	8.2 K	1%, 0207, MF	
R..0108		57.11.3473	47 K	1%, 0207, MF	
R..0109		57.11.3334	330 K	1%, 0207, MF	
R..0201		57.11.3102	1 K	1%, 0207, MF	
R..0202		57.11.3182	1.8 K	1%, 0207, MF	
R..0204		57.11.3304	300 K	1%, 0207, MF	
R..0206		57.11.3222	2.2 K	1%, 0207, MF	
R..0207		57.11.3822	8.2 K	1%, 0207, MF	
R..0208		57.11.3473	47 K	1%, 0207, MF	
R..0209		57.11.3334	330 K	1%, 0207, MF	

ORIG 86/09/16

STUDER (00) 86/09/16

REPRO. SPEED BOARD 9.5/19 IEC 1.777.630.00 PAGE 1

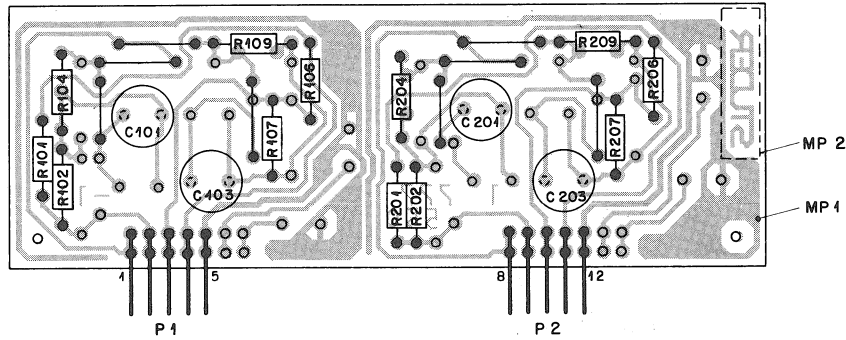
REPRO SPEED BOARD 19/38 IEC 1.777.632.00



**Note:**  
Components with no value indication are not installed.

① 14.287	FA	○ ..	○ ..	○ ..	○ ..
		C270			PAGE 1 OF 1
STUDER	REPRO SPEED B. 19/38 IEC (7,5 / 15)			SC	1.777.632.00

REPRO SPEED BOARD 19/38 IEC 1.777.632.00



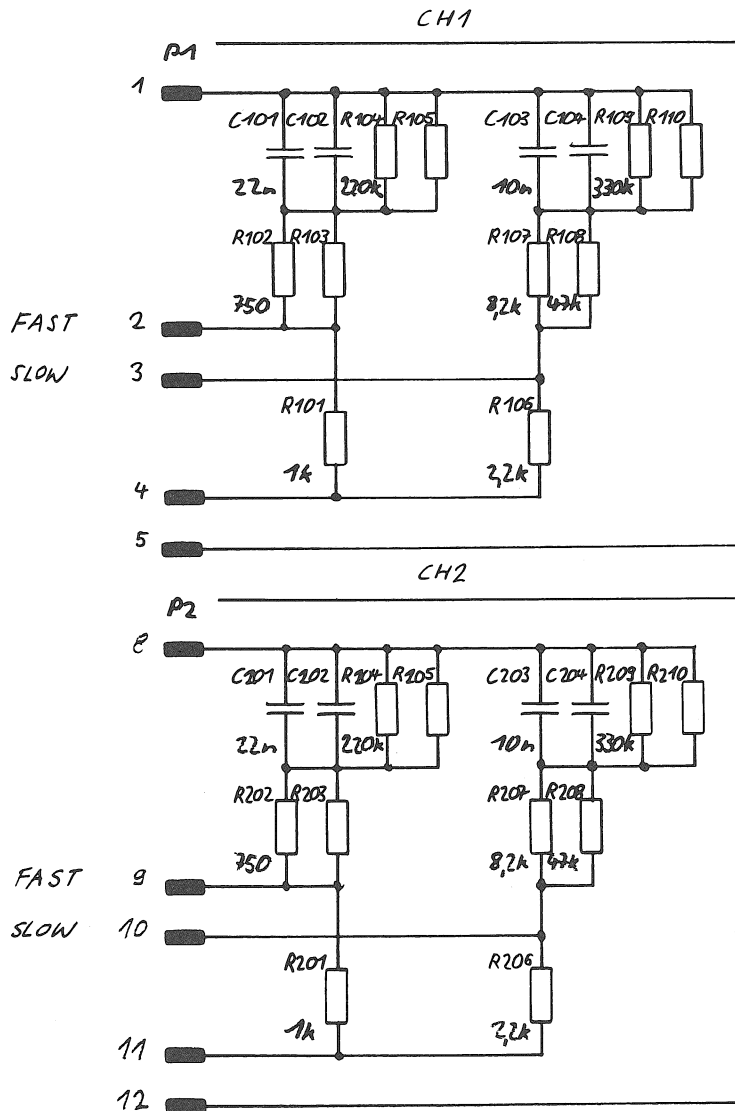
IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0101		59.05.2223	.022 U	2.5%, 63V * PP	
C..0103		59.05.2223	.022 U	2.5%, 63V * PP	
C..0201		59.05.2223	.022 U	2.5%, 63V * PP	
C..0203		59.05.2223	.022 U	2.5%, 63V * PP	
MP..0001		1.777.550.11		REPRO. SPEED BOARD PCB	
MP..0002		1.777.632.01		Label	
P..0001		56.01.0269	5 POL.	STRIP CIS	
P..0002		56.01.0269	5 POL.	STRIP CIS	
R..0101		57.11.3102	1 K	1%, 0207 * MF	
R..0102		57.11.3751	750	1%, 0207 * MF	
R..0104		57.11.4224	220 K	1%, 0207 * MF	
R..0106		57.11.3102	1 K	1%, 0207 * MF	
R..0107		57.11.3182	1.8 K	1%, 0207 * MF	
R..0109		57.11.3304	300 K	1%, 0207 * MF	
R..0201		57.11.3102	1 K	1%, 0207 * MF	
R..0202		57.11.3751	750	1%, 0207 * MF	
R..0204		57.11.4224	220 K	1%, 0207 * MF	
R..0206		57.11.3102	1 K	1%, 0207 * MF	
R..0207		57.11.3182	1.8 K	1%, 0207 * MF	
R..0209		57.11.3304	300 K	1%, 0207 * MF	

ORIG 86/09/16

STUDER (00) 86/09/16

REPRO. SPEED BOARD 19/38 IEC 1.777.632.00 PAGE 1

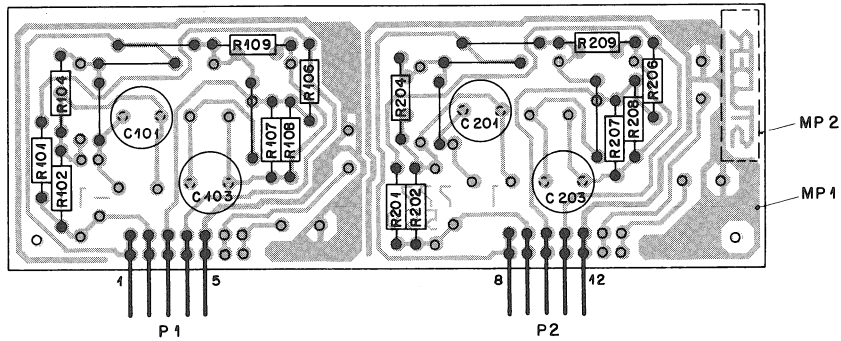
REPRO SPEED BOARD 9.5/38 IEC 1.777.634.00



**Note:**  
Components with no value indication are not installed.

©14.2.87	○ ..	○ ..	○ ..	○ ..
	C 270			PAGE 1 OF 1
STUDER	REPRO SPEED B. 9.5/38 IEC(3,75/15)	SC	1.777.634.00	

REPRO SPEED BOARD 9.5/38 IEC 1.777.634.00



IND.	POS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C..0101	59.05.2223	.022 U	2.5% 63V + PP	
	C..0103	59.05.2103	.01 U	2.5% 63V + PP	
	C..0201	59.05.2223	.022 U	2.5% 63V + PP	
	C..0203	59.05.2103	.01 U	2.5% 63V + PP	
	MP-0001	1.777.550.11		REPRO. SPEED BOARD PCB	
	MP-0002	1.777.634.01		Label	
	P..0001	54.01.0269	5 POL.	STRIP CIS	
	P..0002	54.01.0269	5 POL.	STRIP CIS	
	R..0101	57.11.3102	1 K	1% 0207 + MF	
	R..0102	57.11.3751	750	1% 0207 + MF	
	R..0104	57.11.3224	220 K	1% 0207 + MF	
	R..0106	57.11.3222	2.2 K	1% 0207 + MF	
	R..0107	57.11.3822	8.2 K	1% 0207 + MF	
	R..0108	57.11.3473	47 K	1% 0207 + MF	
	R..0109	57.11.3334	330 K	1% 0207 + MF	
	R..0201	57.11.3102	1 K	1% 0207 + MF	
	R..0202	57.11.3751	750	1% 0207 + MF	
	R..0204	57.11.3224	220 K	1% 0207 + MF	
	R..0206	57.11.3222	2.2 K	1% 0207 + MF	
	R..0207	57.11.3822	8.2 K	1% 0207 + MF	
	R..0208	57.11.3473	47 K	1% 0207 + MF	
	R..0209	57.11.3334	330 K	1% 0207 + MF	

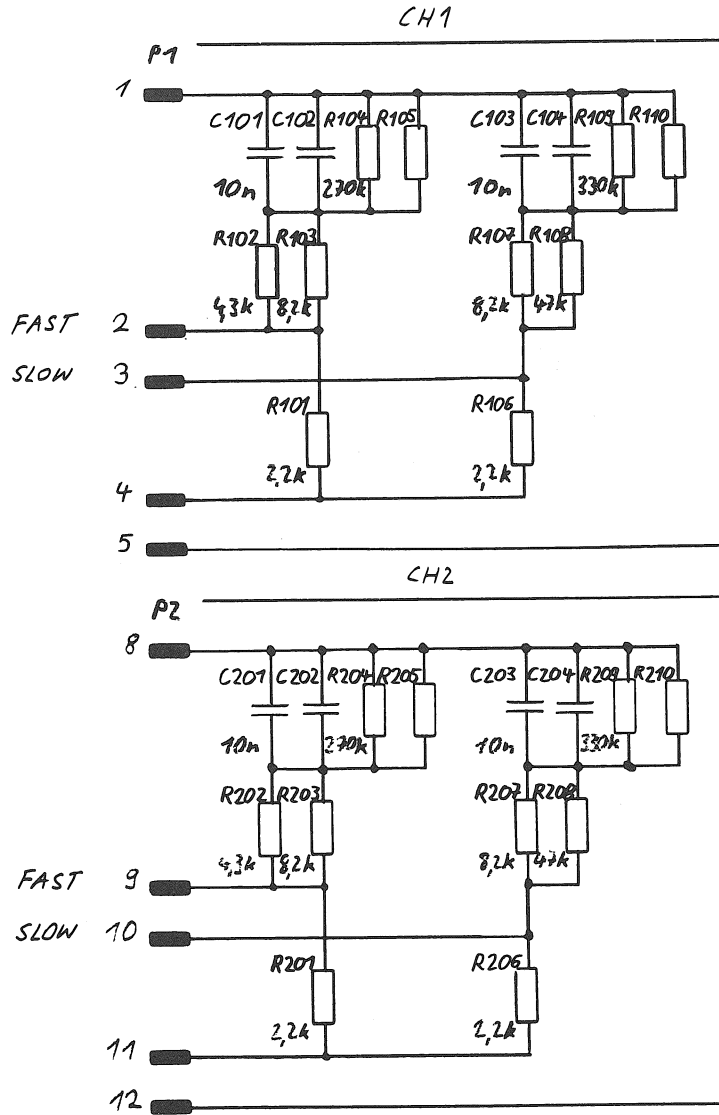
ORIG 86/09/16

STUDER (00) 86/09/16

REPRO. SPEED BOARD 9.5/38 IEC 1.777.634.00 PAGE 1



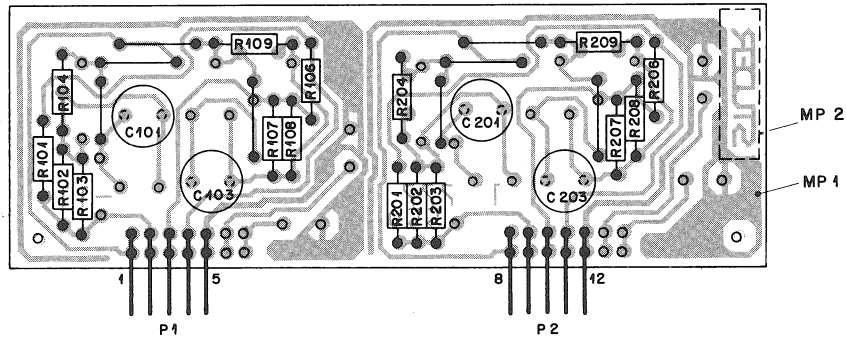
REPRO SPEED BOARD 9.5/19 NAB 1.777.636.00



**Note:**  
 Components with no value indication are not installed.

① 14.2.87	⊙ ..	⊙ ..	⊙ ..	⊙ ..
	C270			PAGE 1 OF 1
STUDER	REPRO SPEED B. 9.5/19 NAB (3,75/7,5) SC	1.777.636.00		

REPRO SPEED BOARD 9.5/19 NAB 1.777.636.00



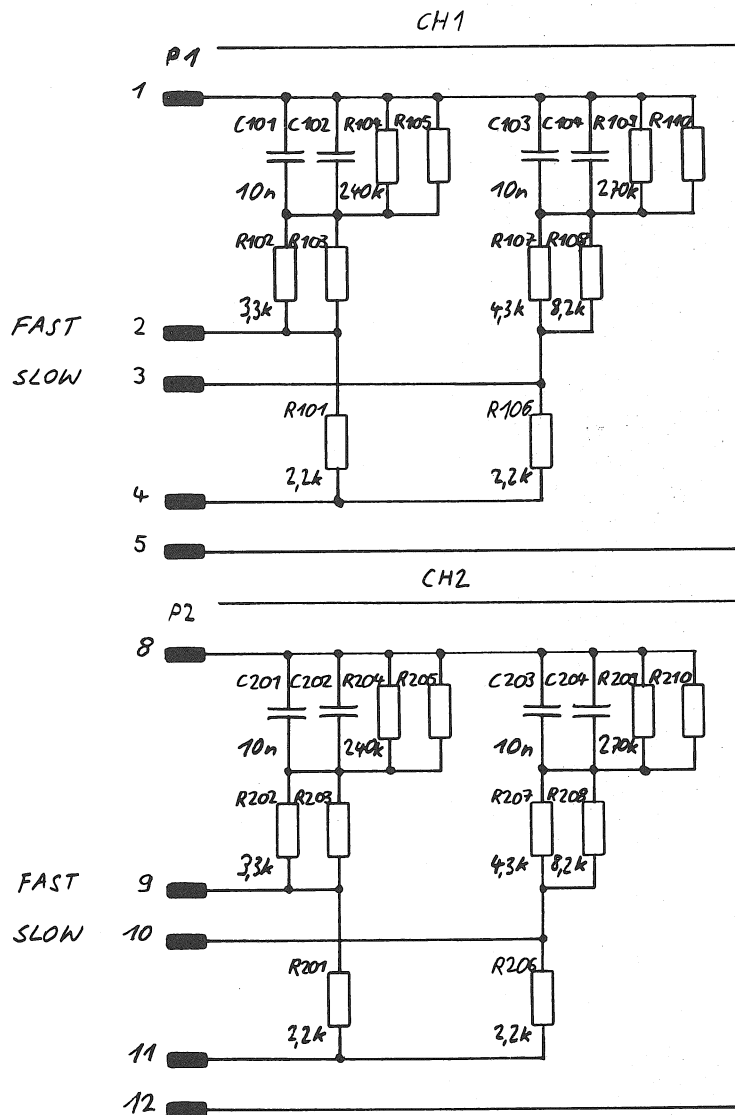
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
		C..0101	59.05.2103	.01 U	2.5%, 63V * PP
		C..0103	59.05.2103	.01 U	2.5%, 63V * PP
		C..0201	59.05.2103	.01 U	2.5%, 63V * PP
		C..0203	59.05.2103	.01 U	2.5%, 63V * PP
		MP.0001	1.777.550.11		REPRO. SPEED BOARD PCB
		MP.0002	1.777.636.01		Label
		P..0001	54.01.0269	5 PDL.	STRIP CIS
		P..0002	54.01.0269	5 PDL.	STRIP CIS
		R..0101	57.11.3222	2.2 K	1%, 0207 * MF
		R..0102	57.11.3432	4.3 K	1%, 0207 * MF
		R..0103	57.11.3822	8.2 K	1%, 0207 * MF
(00)		R..0104	57.11.3274	270 K	1%, 0207 * MF
(01)		R..0104	57.11.4274	270 K	2%, 0207 * MF
		R..0106	57.11.3222	2.2 K	1%, 0207 * MF
		R..0107	57.11.3822	8.2 K	1%, 0207 * MF
		R..0108	57.11.3473	47 K	1%, 0207 * MF
		R..0109	57.11.3334	330 K	1%, 0207 * MF
		R..0201	57.11.3222	2.2 K	1%, 0207 * MF
		R..0202	57.11.3432	4.3 K	1%, 0207 * MF
		R..0203	57.11.3822	8.2 K	1%, 0207 * MF
(00)		R..0204	57.11.3274	270 K	1%, 0207 * MF
(01)		R..0204	57.11.4274	270 K	2%, 0207 * MF
		R..0206	57.11.3222	2.2 K	1%, 0207 * MF
		R..0207	57.11.3822	8.2 K	1%, 0207 * MF
		R..0208	57.11.3473	47 K	1%, 0207 * MF
		R..0209	57.11.3334	330 K	1%, 0207 * MF

(01) 26.06.87 PARTNUMBER CHANGE

ORIG 86/09/16 (01) 87/06/26

STUDER (01) 87/06/26 REPRO. SPEED BOARD 9.5/19 NAB 1.777.636.00 PAGE 1

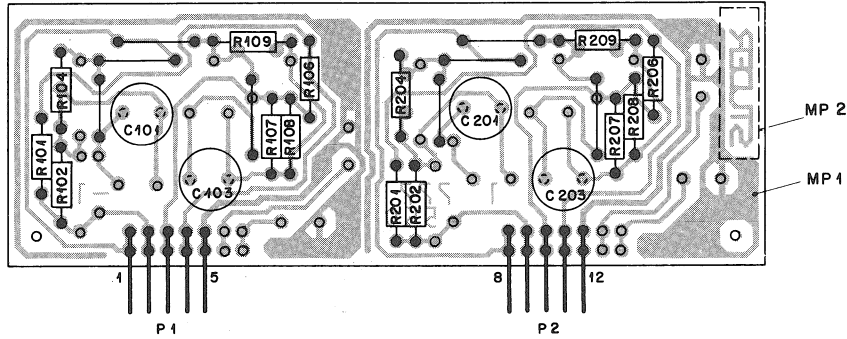
REPRO SPEED BOARD 19/38 NAB 1.777.638.00



**Note:**  
Components with no value indication are not installed.

① 14.2.87 2; Ew	○ ..	○ ..	○ ..	○ ..
	C270			PAGE 1 OF 1
STUDER	REPRO SPEED B. 19/38 NAB (7,5 / 15)	SC	1.777.638.00	

REPRO SPEED BOARD 19/38 NAB 1.777.638.00



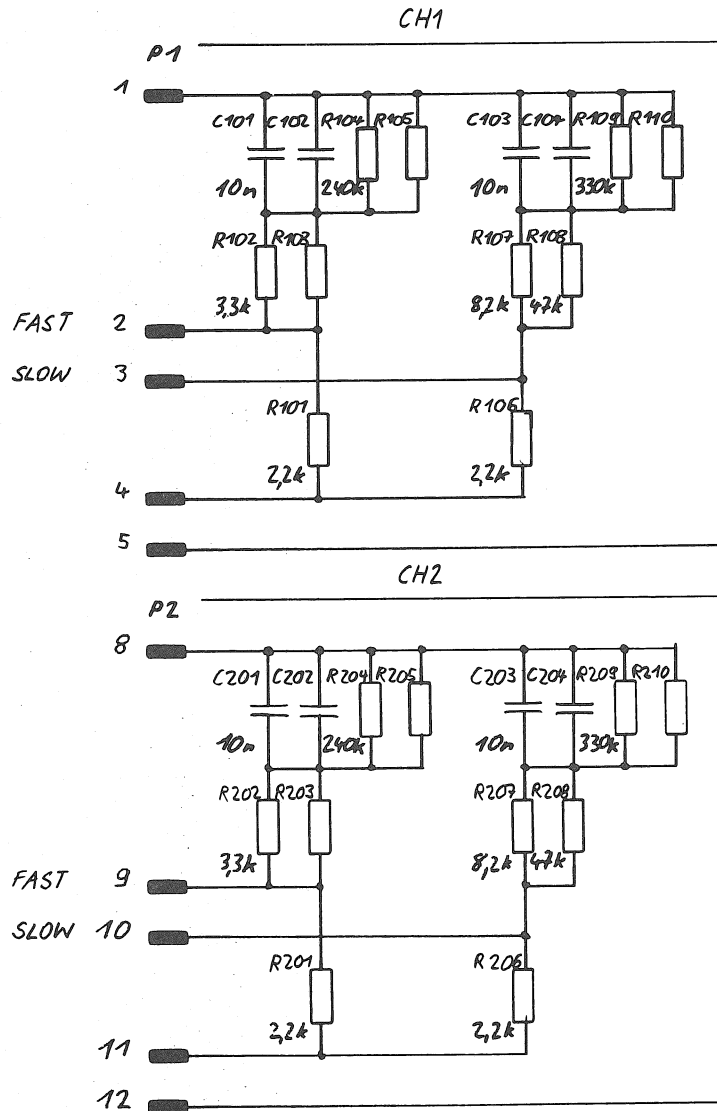
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
		C..0101	59.05.2103	.01 U	2.5%, 63V * PP
		C..0103	59.05.2103	.01 U	2.5%, 63V * PP
		C..0201	59.05.2103	.01 U	2.5%, 63V * PP
		C..0203	59.05.2103	.01 U	2.5%, 63V * PP
		MP.0001	1.777.550.11		REPRO. SPEED BOARD PCB
		MP.0002	1.777.638.01		Label
		P..0001	54.01.0269	5 PDL	STRIP CIS
		P..0002	54.01.0269	5 PDL	STRIP CIS
		R..0101	57.11.3222	2.2 K	1%, 0207 * MF
		R..0102	57.11.3332	3.3 K	1%, 0207 * MF
		R..0104	57.11.3244	240 K	1%, 0207 * MF
		R..0106	57.11.3222	2.2 K	1%, 0207 * MF
		R..0107	57.11.3432	4.3 K	1%, 0207 * MF
		R..0108	57.11.3822	8.2 K	1%, 0207 * MF
(00)		R..0109	57.11.3274	270 K	1%, 0207 * MF
(01)		R..0109	57.11.4274	270 K	2%, 0207 * MF
		R..0201	57.11.3222	2.2 K	1%, 0207 * MF
		R..0202	57.11.3332	3.3 K	1%, 0207 * MF
		R..0204	57.11.3244	240 K	1%, 0207 * MF
		R..0206	57.11.3222	2.2 K	1%, 0207 * MF
		R..0207	57.11.3432	4.3 K	1%, 0207 * MF
		R..0208	57.11.3822	8.2 K	1%, 0207 * MF
(00)		R..0209	57.11.3274	270 K	1%, 0207 * MF
(01)		R..0209	57.11.4274	270 K	2%, 0207 * MF

(01) 26.06.87 PARTNUMBER CHANGE

ORIG 86/09/16 (01) 87/06/26

STUDER (01) 87/06/26 REPRO. SPEED BOARD 19/38 NAB 1.777.638.00 PAGE 1

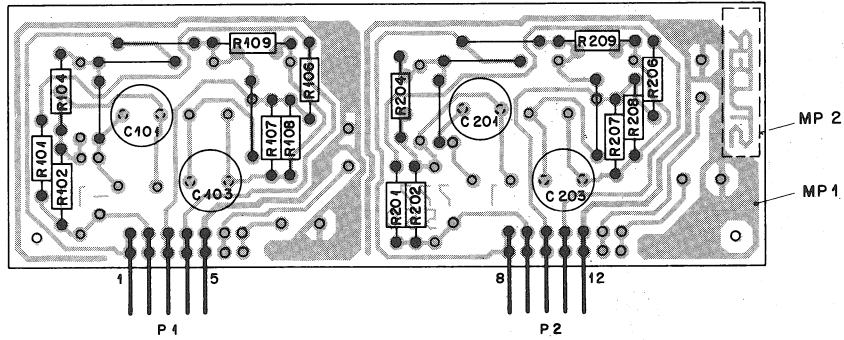
REPRO SPEED BOARD 9.5/38 NAB 1.777.639.00



Note:  
Components with no value indication are not installed.

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C270					PAGE 1 OF 1
STUDER	REPRO SPEED B.9.5/38NAB(3,75/15)			SC	1.777.639.00

REPRO SPEED BOARD 9.5/38 NAB 1.777.639.00



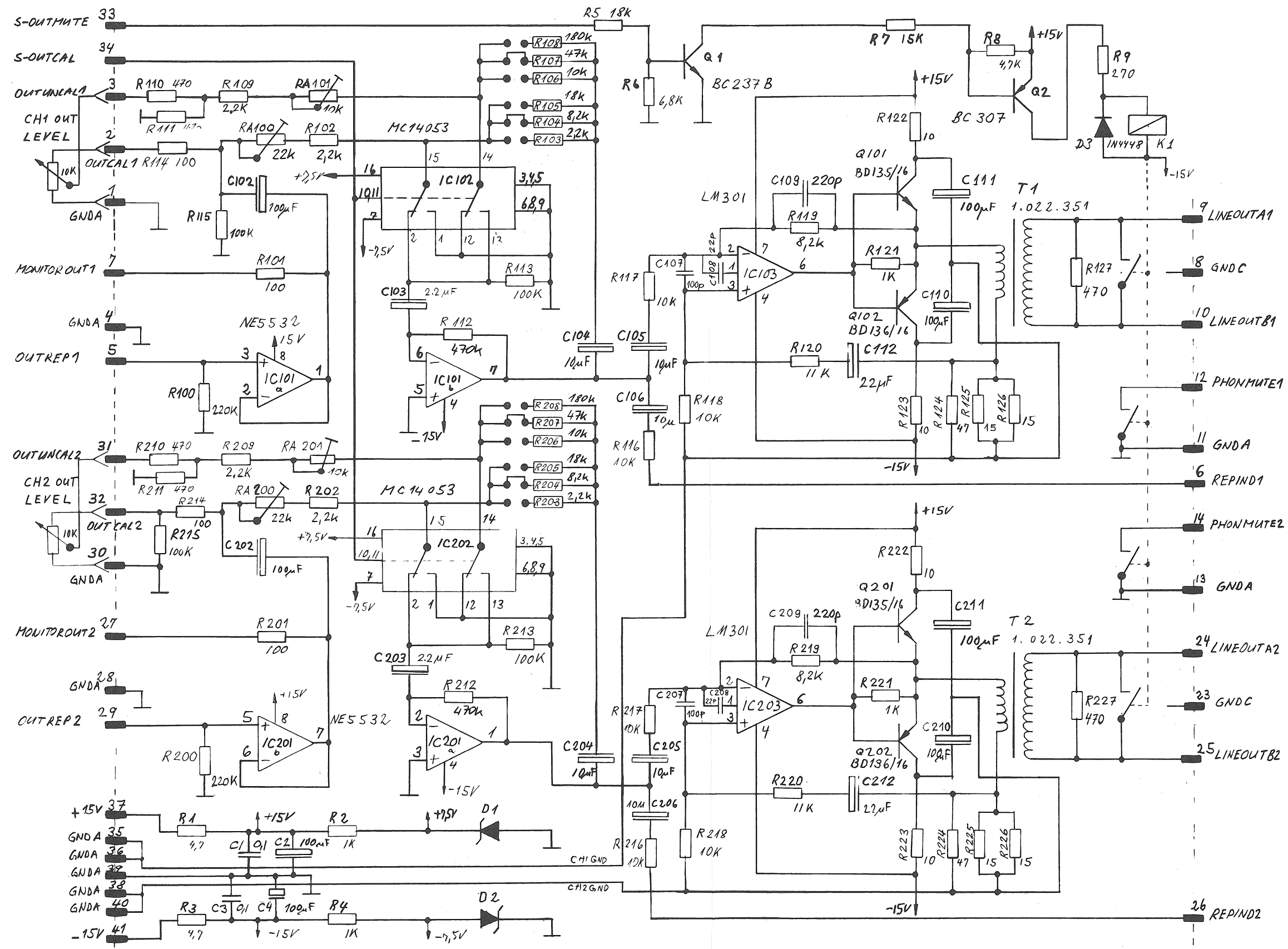
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0101		59.05.2103	.01 U	2.5% 63V PP	
C..0103		59.05.2103	.01 U	2.5% 63V PP	
C..0201		59.05.2103	.01 U	2.5% 63V PP	
C..0203		59.05.2103	.01 U	2.5% 63V PP	
MP.0001	1.777.550.11			REPRO. SPEED BOARD PCB	
MP.0002	1.777.639.01			Label	
P..0001	54.01.0269		5 POL	STRIP CIS	
P..0002	54.01.0269		5 POL	STRIP CIS	
R..0101		57.11.3222	2.2 K	1% 0207 MF	
R..0102		57.11.3332	3.3 K	1% 0207 MF	
R..0104		57.11.3244	240 K	1% 0207 MF	
R..0106		57.11.3222	2.2 K	1% 0207 MF	
R..0107		57.11.3822	8.2 K	1% 0207 MF	
R..0108		57.11.3473	47 K	1% 0207 MF	
R..0109		57.11.3334	330 K	1% 0207 MF	
R..0201		57.11.3222	2.2 K	1% 0207 MF	
R..0202		57.11.3332	3.3 K	1% 0207 MF	
R..0204		57.11.3244	240 K	1% 0207 MF	
R..0206		57.11.3222	2.2 K	1% 0207 MF	
R..0207		57.11.3822	8.2 K	1% 0207 MF	
R..0208		57.11.3473	47 K	1% 0207 MF	
R..0209		57.11.3334	330 K	1% 0207 MF	

ORIG 86/09/16

STUDER (00) 86/09/16

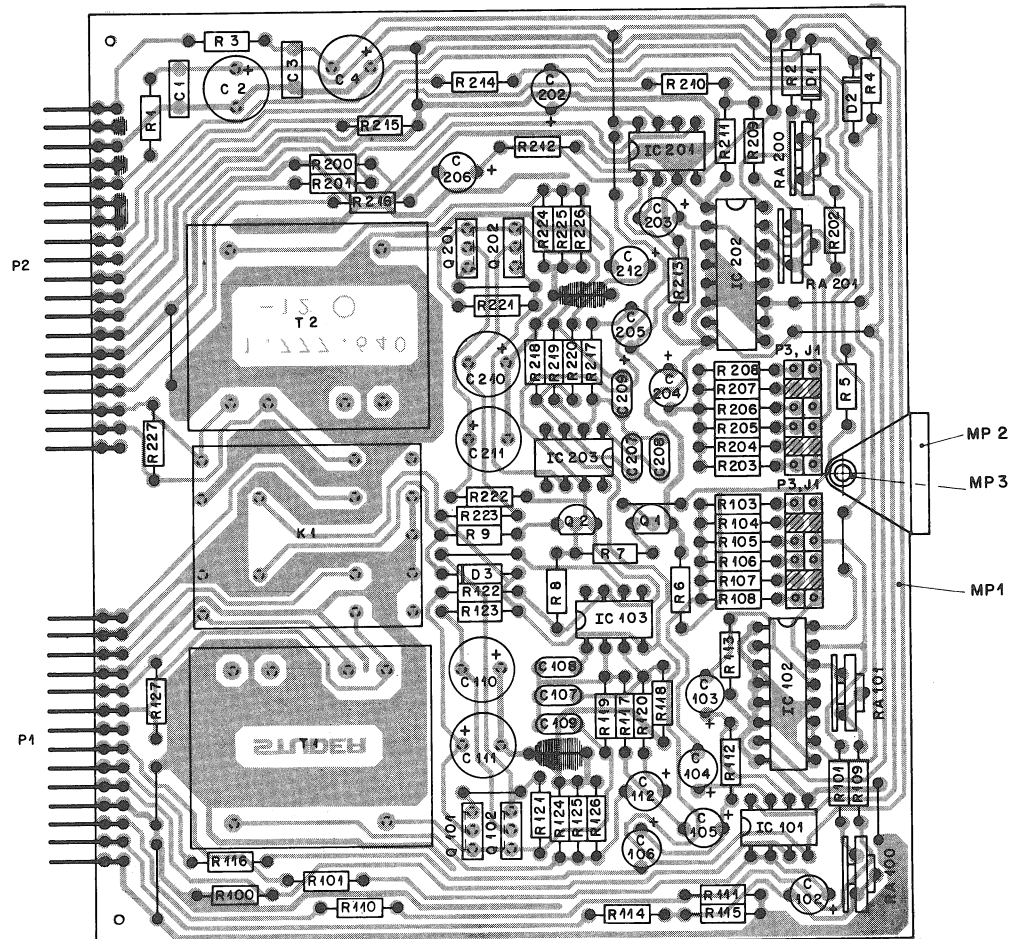
REPRO. SPEED BOARD 9.5/38 NAB 1.777.639.00 PAGE 1

OUTPUT AMPLIFIER BOARD 1.777.640.00



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 C270  
 STUDER  
 OUTPUT AMPL. BOARD  
 "ESE" SC 1.777.640.00  
 PAGE 1 OF 1

OUTPUT AMPLIFIER BOARD 1.777.640.00



IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C..0001	59.06.5104	.1 U	5%	63V P PTP	
C..0002	59.22.5101	100 U	-20%	25V EL	
C..0003	59.06.5104	.1 U	5%	63V P PTP	
C..0004	59.22.5101	100 U	-20%	25V EL	
C..0102	59.22.5101	100 U	-20%	10V EL	
C..0103	59.22.8229	2.2 U	-20%	63V EL	
C..0104	59.22.6100	10 U	-20%	40V EL	
C..0105	59.22.6100	10 U	-20%	40V EL	
C..0106	59.22.6100	10 U	-20%	40V EL	
C..0107	59.34.4101	100 P	5%	N750 CER	
C..0108	59.34.2220	22 P	5%	N150 CER	
C..0109	59.34.4221	220 P	5%	N750 CER	
C..0110	59.22.5220	22 U	-20%	25V EL	
C..0111	59.22.5101	100 U	-20%	25V EL	
C..0112	59.22.5220	22 U	-20%	25V EL	
C..0202	59.22.3101	100 U	-20%	10V EL	
C..0203	59.22.8229	2.2 U	-20%	63V EL	
C..0204	59.22.6100	10 U	-20%	40V EL	
C..0205	59.22.6100	10 U	-20%	40V EL	
C..0206	59.22.6100	10 U	-20%	40V EL	
C..0207	59.34.4101	100 P	5%	N750 CER	
C..0208	59.34.2220	22 P	5%	N150 CER	
C..0209	59.34.4221	220 P	5%	N750 CER	
C..0210	59.22.5220	22 U	-20%	25V EL	
C..0211	59.22.5101	100 U	-20%	25V EL	
C..0212	59.22.5220	22 U	-20%	25V EL	

D..0001	50.04.1103	7.5 V	5%	.40W 2	ITT,Mot,Ph
D..0002	50.04.1103	7.5 V	5%	.40W 2	
D..0003	50.04.0125		1N	4448	51
IC..0101	50.09.0105		NE	5532 N	Sig,Ex,Ra
IC..0102	50.07.0015		MC	14 053BCP,C/D 4053 BCN+A	Mot,NS
IC..0103	50.05.3144		LM	301 AN	NS
IC..0201	50.09.0105		NE	5532 N	Sig,Ex,Ra

STUDER (01) 87/11/15 OUTPUT AMPL. BOARD A 1.777.640.00 PAGE 1

IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R..0214	57.11.4101	100	2%	0207 MF	
R..0215	57.11.4104	100 K	2%	0207 MF	
R..0216	57.11.4103	10 K	2%	0207 MF	
R..0217	57.11.4103	10 K	2%	0207 MF	
R..0218	57.11.4103	10 K	2%	0207 MF	
R..0219	57.11.4822	8.2 K	2%	0207 MF	
R..0220	57.11.3113	11 K	1%	0207 MF	
R..0221	57.11.4102	1 K	2%	0207 MF	
R..0222	57.11.4100	10	2%	0207 MF	
R..0223	57.11.4100	10	2%	0207 MF	
R..0224	57.11.4470	47	2%	0207 MF	
R..0225	57.11.4150	15	2%	0207 MF	
R..0226	57.11.4150	15	2%	0207 MF	
R..0227	57.11.4471	470	2%	0207 MF	
RA..0100	58.02.4223	22 K	20%	.1 W PCSCH	Ph,Dr,aloric
RA..0101	58.02.4103	10 K	20%	.1 W PCSCH	Ph,Dr,aloric
RA..0200	58.02.4223	22 K	20%	.1 W PCSCH	Ph,Dr,aloric
RA..0201	58.02.4103	10 K	20%	.1 W PCSCH	Ph,Dr,aloric
T..0001	1.022.351.00			TRANSFORMER OUTPUT	St
T..0002	1.022.351.00			TRANSFORMER OUTPUT	

(01) 15-11-87 PCB Revise  
 MANUFACTURER: Mot=Motorola; NS=National Semiconductors; Ph=Philips  
 Sig=Signetics; St=Studer; Ex=Exar; Ra=Raytheon; To=Toshiba  
 Sgs=SGS/Atos; Bq=Berg; Amp=AMP Incorporated; Ss=Siemens  
 ITT=Intermettal  
 ORIG 86/09/16 (01) 87/11/15  
 STUDER (01) 87/11/15 OUTPUT AMPL. BOARD A 1.777.640.00 PAGE 4

IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
IC..0202	50.07.0015		MC	14 053BCP,C/D 4053 BCN+A	Mot,NS
IC..0203	50.05.3144		LM	301 AN	NS
J..0001	54.01.0021	4 pcs		JUMPER	Bg
K..0001	56.04.0144	24V 49U		220V / 2A PRINT	Omron,Zettler,SDS
MP..0001	1.777.640.11			OUTPUT AMPL. PCB	St
MP..0001	1.777.640.12			OUTPUT AMPL. PCB	St
MP..0002	1.010.001.33			CRIP	St
MP..0003	18.21.1360	02.2595		TUBULARRIVET	St
P..0001	54.01.0274	14 PDL		STRIP CIS ANGLES	AMP
P..0002	54.01.0279	19 PDL		STRIP CIS ANGLES	AMP
P..0003	54.01.0020	24 pcs		M=5.8/3.4	Bg
Q..0001	50.03.0436		BC	237 B / BC 547 B	Sie,Ph,Mot
Q..0002	50.03.0515		BC	307 / BC 557 B	Ph,Mot,ITT
Q..0101	50.03.0495		BD	135-16	Ph,SGS,To
Q..0102	50.03.0510		BD	135-16	
Q..0201	50.03.0495		BD	135-16	
Q..0202	50.03.0510		BD	135-16	
R..0001	57.11.4479	4.7	2%	0207 MF	
R..0002	57.11.4102	1 K	2%	0207 MF	
R..0003	57.11.4479	4.7	2%	0207 MF	
R..0004	57.11.4102	1 K	2%	0207 MF	
R..0005	57.11.4183	18 K	2%	0207 MF	
R..0006	57.11.4682	6.8 K	2%	0207 MF	
R..0007	57.11.4153	15 K	2%	0207 MF	
R..0008	57.11.4472	4.7 K	2%	0207 MF	
R..0009	57.11.4271	270	2%	0207 MF	
R..0100	57.11.4224	220 K	2%	0207 MF	
R..0101	57.11.4101	100	2%	0207 MF	
R..0102	57.11.4222	2.2 K	2%	0207 MF	
R..0103	57.11.4222	2.2 K	2%	0207 MF	
R..0104	57.11.4622	8.2 K	2%	0207 MF	

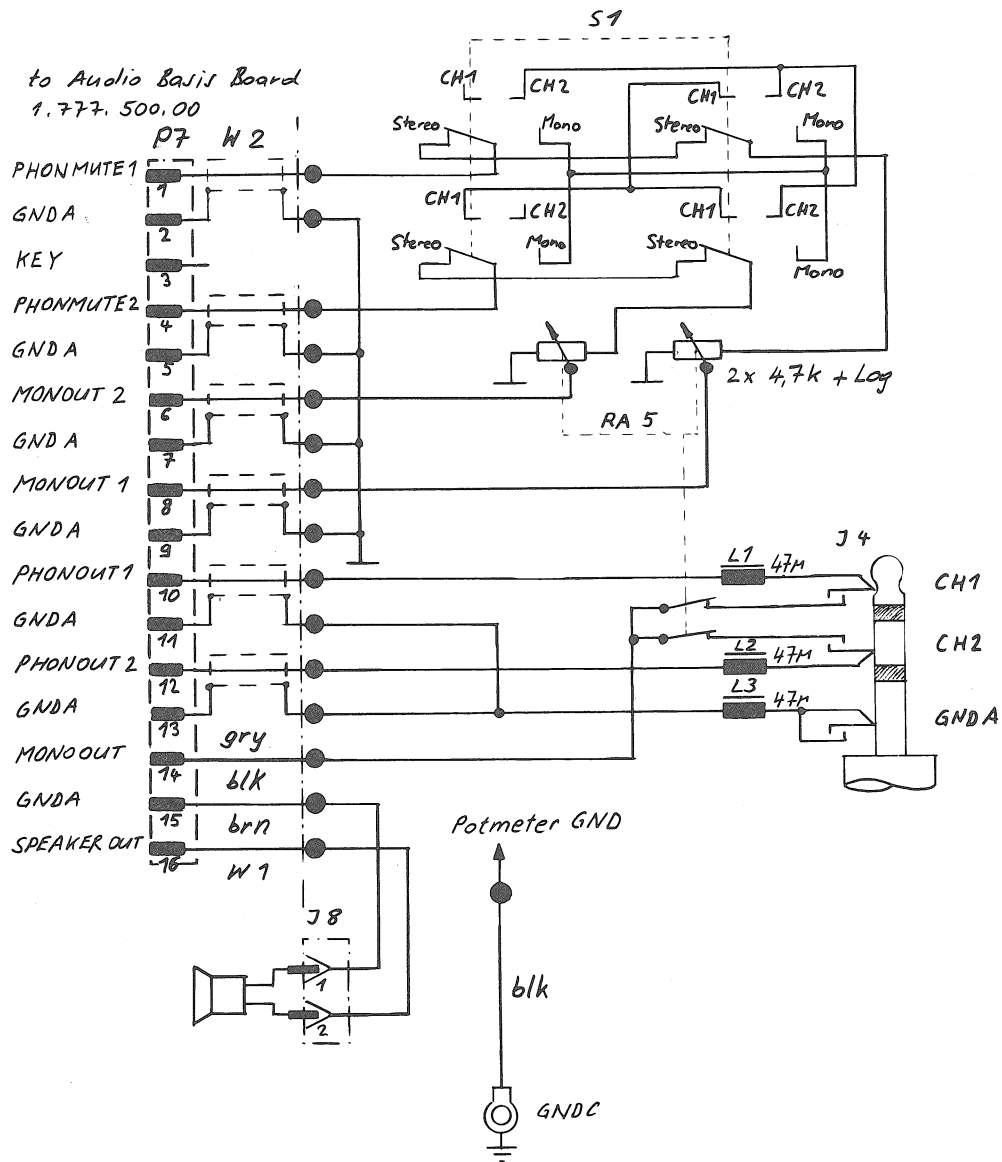
STUDER (01) 87/11/15 OUTPUT AMPL. BOARD A 1.777.640.00 PAGE 2

IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R..0105	57.11.4183	18 K	2%	0207 MF	
R..0106	57.11.4103	10 K	2%	0207 MF	
R..0107	57.11.4473	47 K	2%	0207 MF	
R..0108	57.11.4184	180 K	2%	0207 MF	
R..0109	57.11.4222	2.2 K	2%	0207 MF	
R..0110	57.11.4471	470	2%	0207 MF	
R..0111	57.11.4471	470	2%	0207 MF	
R..0112	57.11.4474	470 K	2%	0207 MF	
R..0113	57.11.4104	100 K	2%	0207 MF	
R..0114	57.11.4101	100	2%	0207 MF	
R..0115	57.11.4104	100 K	2%	0207 MF	
R..0116	57.11.4103	10 K	2%	0207 MF	
R..0117	57.11.4103	10 K	2%	0207 MF	
R..0118	57.11.4103	10 K	2%	0207 MF	
R..0119	57.11.4822	8.2 K	2%	0207 MF	
R..0120	57.11.3113	11 K	1%	0207 MF	
R..0121	57.11.4102	1 K	2%	0207 MF	
R..0122	57.11.4100	10	2%	0207 MF	
R..0123	57.11.4100	10	2%	0207 MF	
R..0124	57.11.4470	47	2%	0207 MF	
R..0125	57.11.4150	15	2%	0207 MF	
R..0126	57.11.4150	15	2%	0207 MF	
R..0127	57.11.4471	470	2%	0207 MF	
R..0200	57.11.4224	220 K	2%	0207 MF	
R..0201	57.11.4101	100	2%	0207 MF	
R..0202	57.11.4222	2.2 K	2%	0207 MF	
R..0203	57.11.4222	2.2 K	2%	0207 MF	
R..0204	57.11.4622	8.2 K	2%	0207 MF	
R..0205	57.11.4183	18 K	2%	0207 MF	
R..0206	57.11.4103	10 K	2%	0207 MF	
R..0207	57.11.4473	47 K	2%	0207 MF	
R..0208	57.11.4184	180 K	2%	0207 MF	
R..0209	57.11.4222	2.2 K	2%	0207 MF	
R..0210	57.11.4471	470	2%	0207 MF	
R..0211	57.11.4471	470	2%	0207 MF	
R..0212	57.11.4474	470 K	2%	0207 MF	
R..0213	57.11.4104	100 K	2%	0207 MF	

STUDER (01) 87/11/15 OUTPUT AMPL. BOARD A 1.777.640.00 PAGE 3

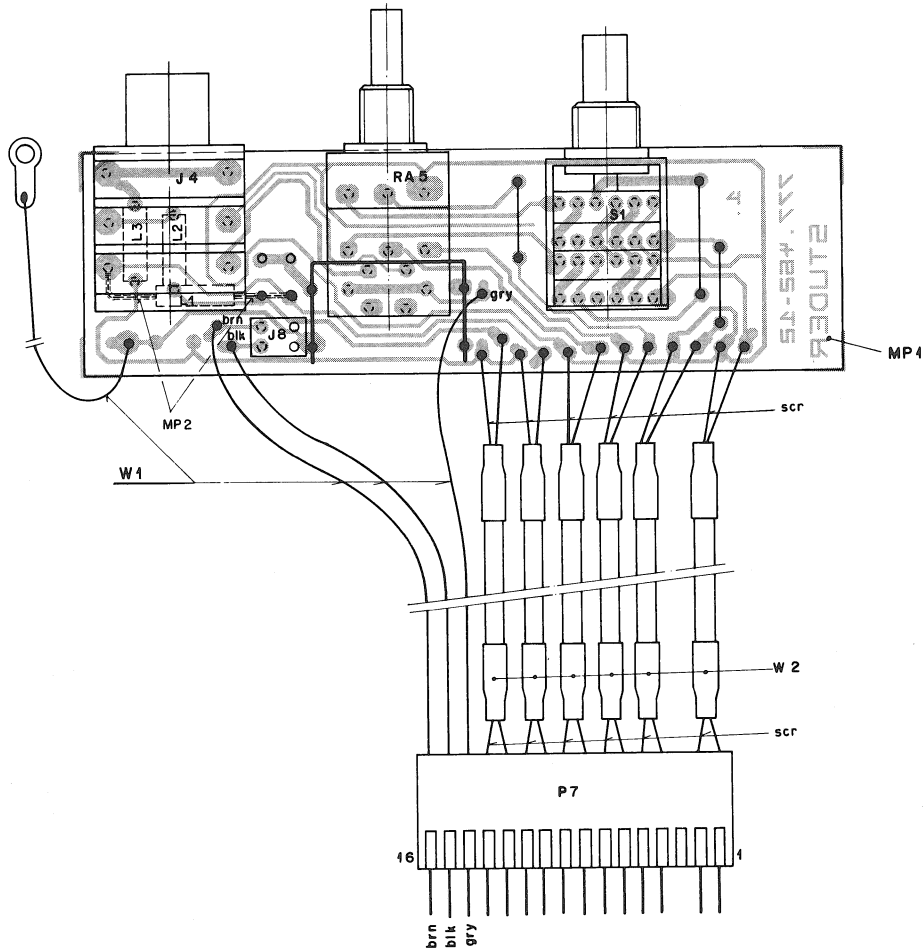


AUDIO SWITCH BOARD 1.777.462.00



① 19.1.87 J.M.E.L.	② 12.8.87 J.M.E.L.	③ 10.12.87 J.M.E.L.	○ ..	○ ..
C270				PAGE 1 OF 1
STUDER SWITCH BOARD			SC	1.777.462.00

AUDIO SWITCH BOARD 1.777.462.00



IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(01)	C..0001	59.32.3103		C 10 N ±20% CER not connected	
(03)	C..0001	59.32.3103		C 10 N ±20% CER not connected	
(01)	C..0002	59.32.3103		C 10 N ±20% CER not connected	
(03)	C..0002	59.32.3103		C 10 N ±20% CER not connected	
(00)	C..0012	59.34.1131		C 100 P ±5% CER	
(01)	C..0012	59.06.0104		C 100 N ±10% PETP not connected	
(03)	C..0012	59.06.0104		C 100 N ±10% PETP not connected	
(03)	L..0001	62.01.0138		coil 47 Mikro	ph
(03)	L..0002	62.01.0138		coil 47 Mikro	ph
(03)	L..0003	62.01.0138		coil 47 Mikro	ph
	J..0004	1.710.350.02		JACK STEREO	St
(00)	J..0008	54.01.0287	3 PDL.	SOCKET STRIP CIS	AMP
(01)	J..0008	54.01.0204	2 PDL.	SOCKET STRIP CIS	AMP
(00)	MP.0001	1.777.462.11		LEVEL-SWITCH PCB	St
(02)	MP.0001	1.777.462.12		LEVEL-SWITCH PCB	St
(03)	MP.0002	1.010.105.65	2 pcs	TUBE	St
	P..0007	54.01.0283	16 PDL.	CASING CIS	AMP
	RA.0005	1.010.024.58		POT 4.7 K *LOG	Preh
	S..0001	1.725.810.02		ROTARY SWITCH	Alps
	W..0001	1.777.462.93		WL-SWITCH BOARD	St
	W..0002	1.777.462.94		KL-SWITCH BOARD	St

(01) 12.08.87 Value adjust  
 (02) 15.11.87 PCB Revise  
 (03) 10.12.87 FTZ Revise

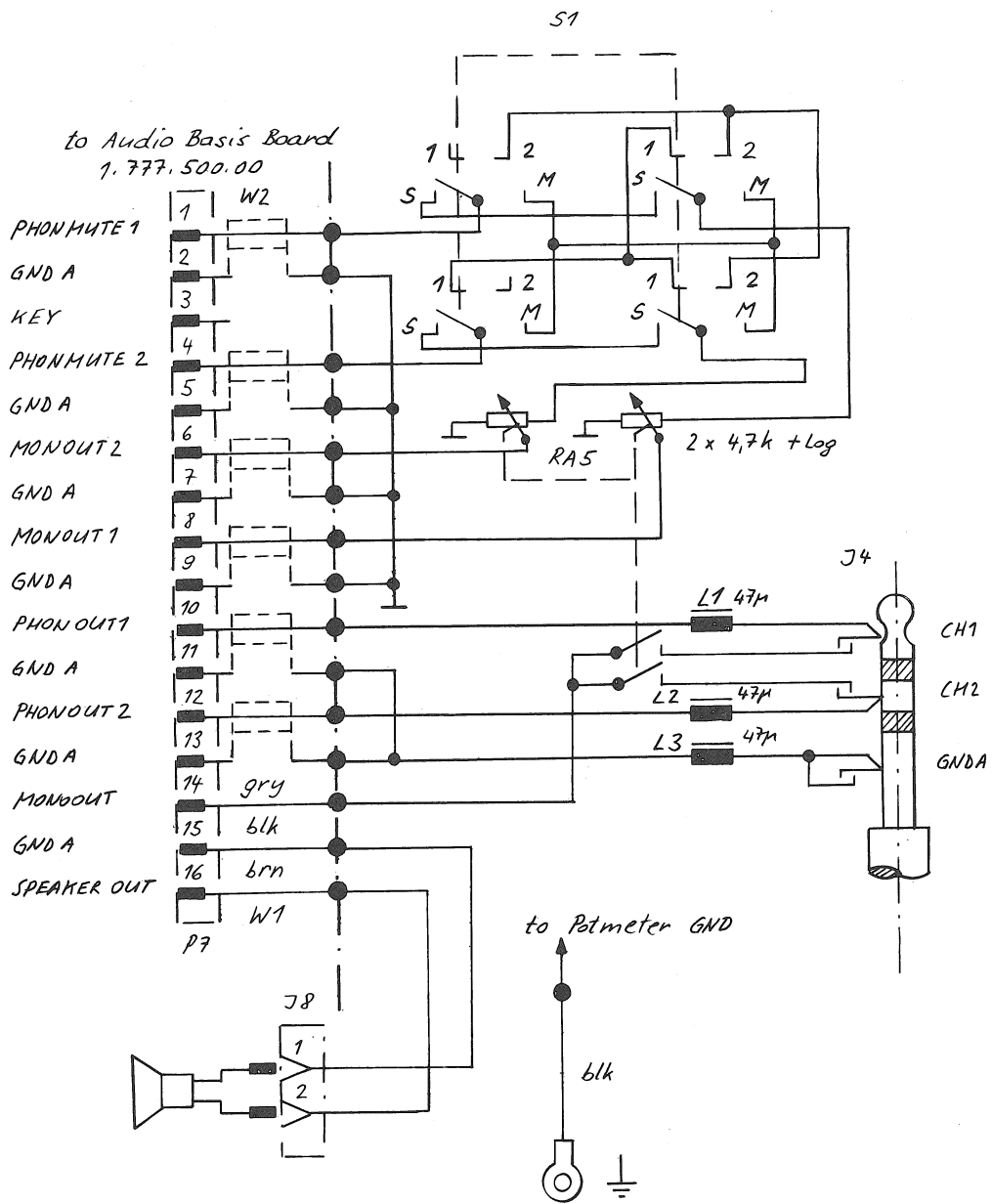
MANUFACTURER: ST=Studer, Alps=Alps&Co, AMP=AMP Incorporated, ph=Philips.

ORIG 87/01/20 (01) 87/08/12 (02) 87/11/15 (03) 87/12/10

STUDER (03) 87/12/10 SWITCH BOARD

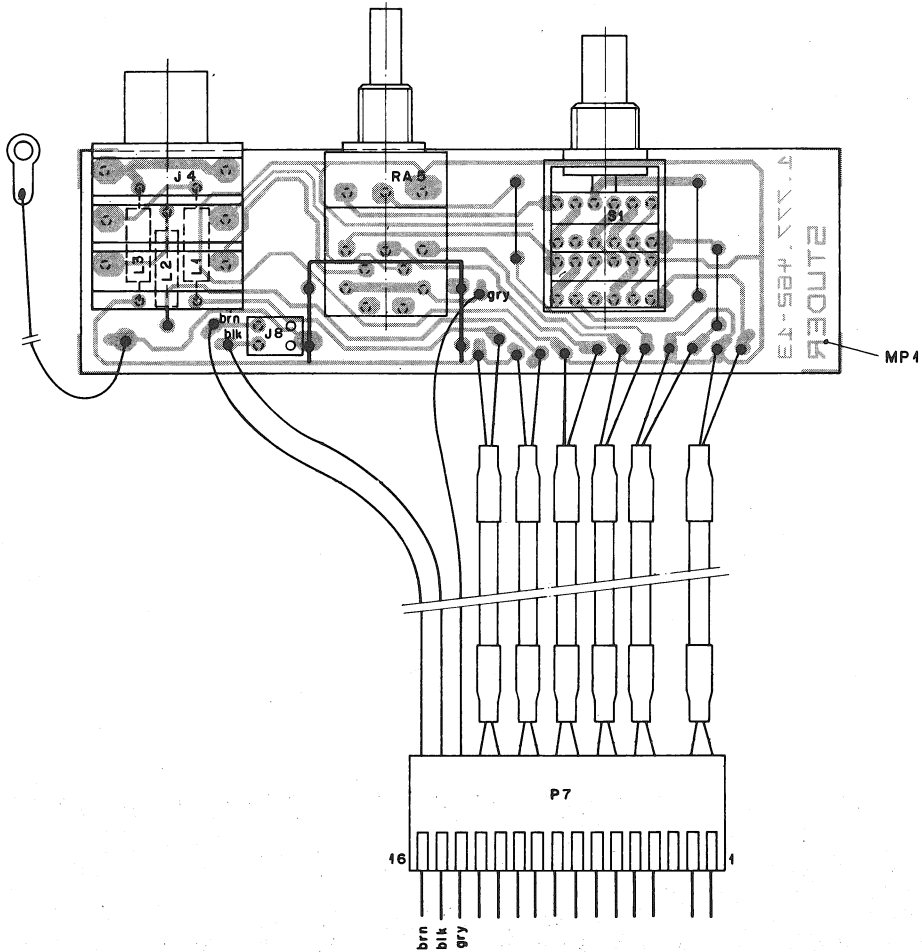
1.777.462.00 PAGE 1

SWITCH BOARD 1.777.463.00



① 161287 J. M. H.	○ ..	○ ..	○ ..	○ ..
C 270	PAGE 1 OF 1			
STUDER	SWITCH BOARD		SC	1.777.463-00

SWITCH BOARD 1.777.463.00



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
L..0001		62.01.0138		coil 47 Mikro	ph
L..0002		62.01.0138		coil 47 Mikro	ph
L..0003		62.01.0138		coil 47 Mikro	ph
J..0004		1.710.350.02		JACK STEREO	St
J..0008		54.01.0204	2 POL.	SOCKET STRIP CIS	AMP
MP.0001		1.777.462.13		LEVEL-SWITCH PCB	St
P..0007		54.01.0283	16 POL.	CASING CIS	AMP
RA.0005		1.010.024.58		POT 4.7 K *LOG	Preh
S..0001		1.725.810.02		ROTARY SWITCH	Alps
H..0001		1.777.462.93		HL-SWITCH BOARD	St
H..0002		1.777.462.94		KL-SWITCH BOARD	St

MANUFACTURER: St=Studer+Alps=AlpsCo+AMP=AMP Incorporated, ph=Philips.

ORIG 87/12/20

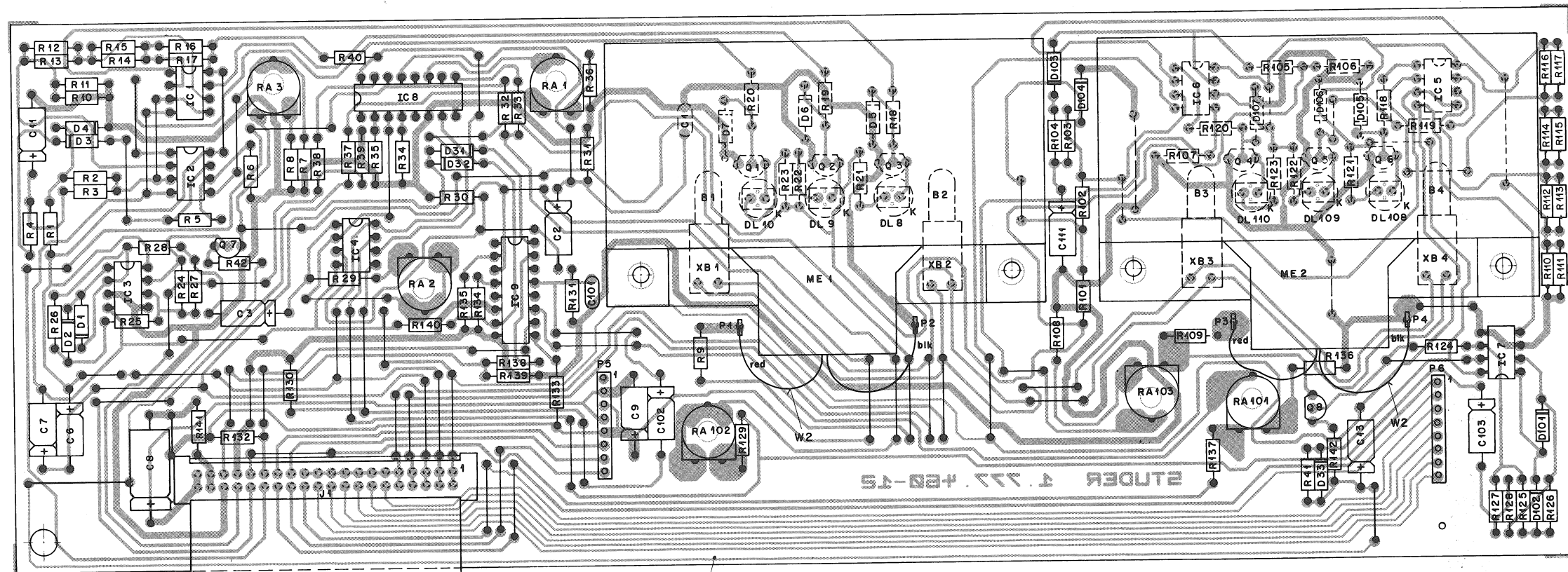
STUDER (00) 87/12/20

SWITCH BOARD

1.777.463.00 PAGE 1

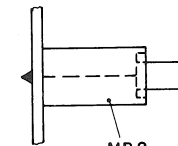


VU-PEAK BOARD 1.777.460.00



MP1

W1



DL 8, 9, 10  
DL 108, 109, 110



VU-PEAK BOARD 1.777.460.00

Table with columns: IND., POS.-NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., and a second set of the same columns. Contains component lists for VU-PEAK-BOARD A.

S T U D E R (03) 88/02/03 VU-PEAK-BOARD A 1.777.460.00 PAGE 1

S T U D E R (05) 88/12/01 VU-PEAK-BOARD A PL 1.777.460.00 PAGE 4

Table with columns: IND., POS.-NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., and a second set of the same columns. Contains component lists for VU-PEAK-BOARD A.

S T U D E R (03) 88/02/03 VU-PEAK-BOARD A 1.777.460.00 PAGE 2

S T U D E R (05) 88/12/01 VU-PEAK-BOARD A PL 1.777.460.00 PAGE 5

Table with columns: IND., POS.-NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., and a second set of the same columns. Contains component lists for VU-PEAK-BOARD A.

S T U D E R (03) 88/02/03 VU-PEAK-BOARD A 1.777.460.00 PAGE 3

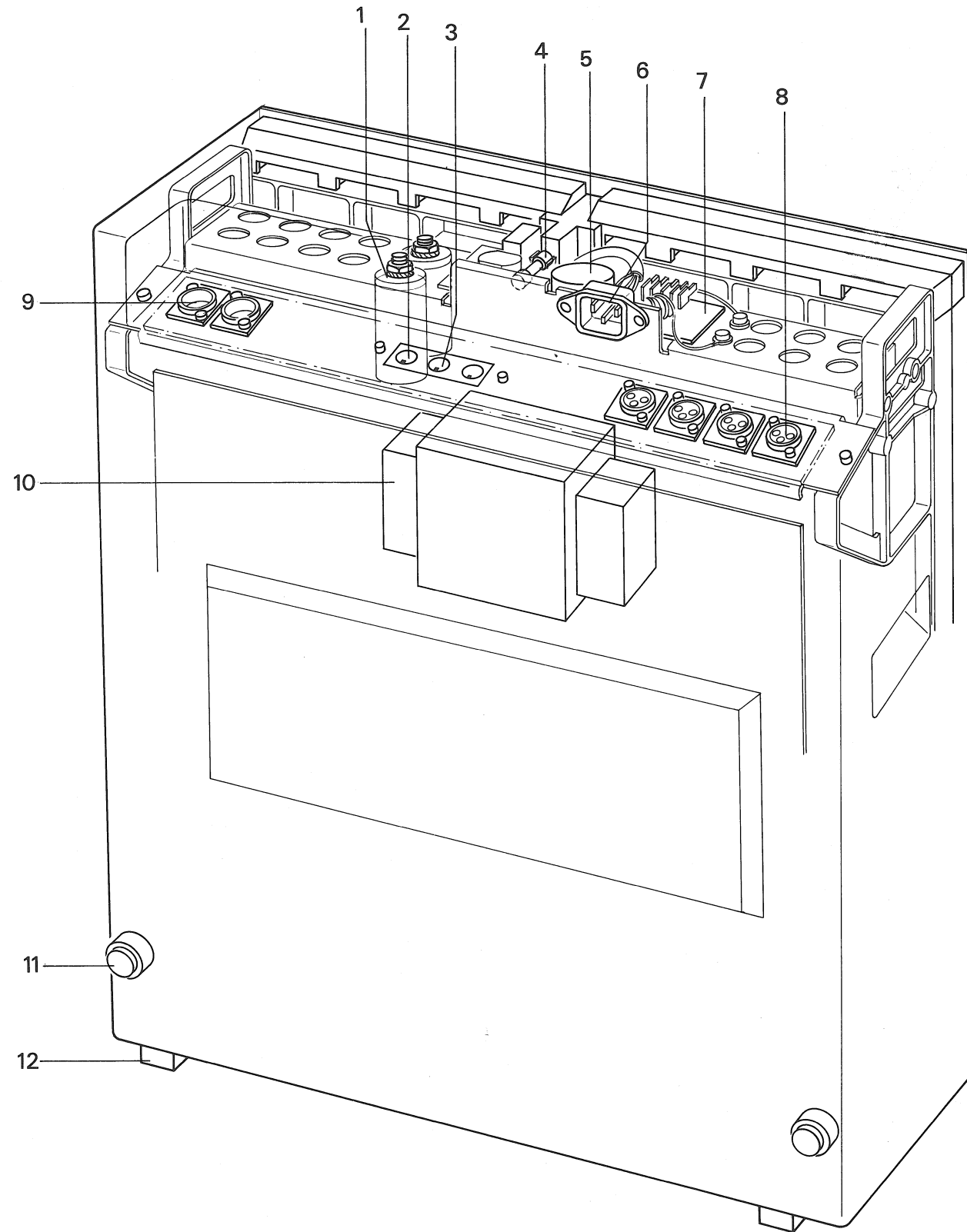
S T U D E R (05) 88/12/01 VU-PEAK-BOARD A PL 1.777.460.00 PAGE 6

## 7. ERSATZTEILLISTEN / SPARE PARTS LISTS

<b>INHALT</b>	<b>Seite</b>
ANSCHLUSSFELD / TERMINAL BOARD	7/1
BEDIENEINHEIT / FRONT PANEL	7/2
BANDZUGWAAGE / TAPE TENSION SENSOR	7/4
BANDBREMSE / BRAKE CHASSIS	7/6
KOPFTRAEGER / HEAD CHASSIS	7/8
ANDRUCKAGGREGAT UND BANDABHEBUNG / ROLLER ASSEMBLY	7/10

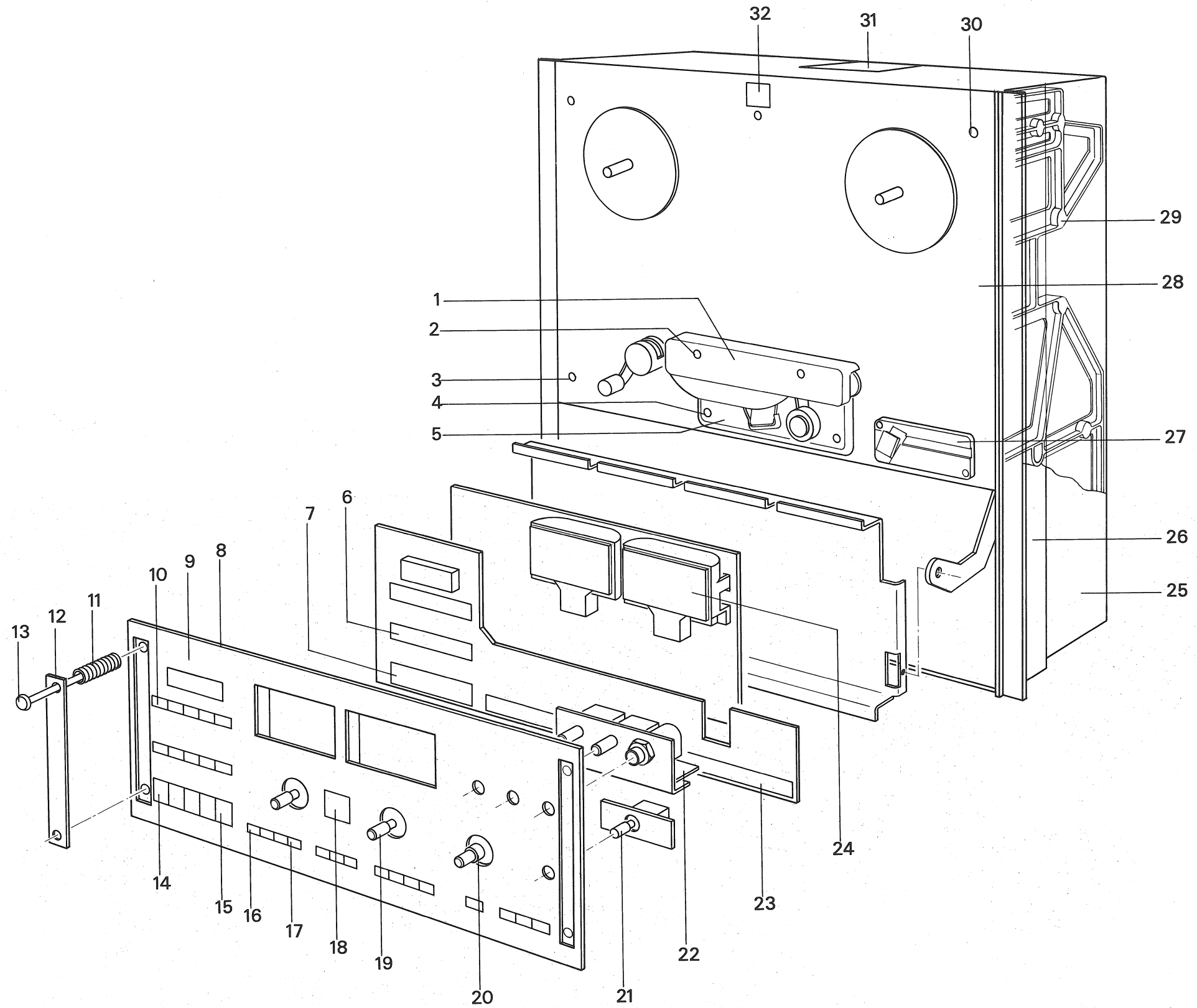


## 7.1 ANSCHLUSSFELD / TERMINAL BOARD



POS	QTY	ORDER NUMBER	PART NAME	SPECIFICATION
1	2	59.14.6809	Capacitor 8µF 240V	
2	2	54.20.2003	Socket DIN 8p. PCB mount	
3	1	54.21.1247	Socket DIN 7p. PCB mount	
4	1	51.01.0116	Fuse 0,8 A	
	1	51.01.0118	Fuse 1,25A	
	1	51.01.0121	Fuse 2,5 A	
5	1	53.03.0131	Voltage selector PCB	
6	1	54.04.0109	Mains chassis socket 3p.	
7	1	1.777.830.00	Connection unit	
8	4	1.012.301.00	Chassis socket XLR femal	
9	2	1.012.300.00	Chassis socket XLR	
10	1	1.777.300.00	Mains transformer	
11	4	1.777.010.11	Rubber foot	
12	2	1.777.010.03	Rail / Feet	

## 7.2 BEDIENEINHEIT / FRONTPANEL



## BEDIENEINHEIT / FRONTPANEL

POS	QTY	ORDER NUMBER	PART NAME	SPECIFICATION
1	1	1.777.010.01	Cover / head support	
2	2	1.080.142.10	Flat allen screw spec.	
3	2	21.51.2455	Flat allen screw M4x8	
4	2	21.51.2455	Flat allen screw M4x8	
5	1	1.777.010.05	Cover small	
6	2	1.777.100.27	Rubber mat 2	
7	1	1.777.100.26	Rubber mat 1	
8	1	1.777.100.21	Operating chassis	
9	1	1.777.100.24	Designation plate	
10	10	1.777.100.35	Pushbutton 3	
11	4	1.010.053.37	Pressure spring	
12	2	1.777.100.46	Handle	
13	4	1.777.100.45	Screw spec.	
14	4	1.777.100.34	Pushbutton 2	
15	1	1.777.100.32	Pushbutton 2 red	
16	2	1.777.100.31	Pushbutton 1 red	
17	13	1.777.100.33	Pushbutton 1	
18	1	71.01.0158	Loudspeaker monitor	
19	2	1.777.450.02	Potentiometer 10k	
	2	1.777.100.36	Knob rotary D.25	
20	1	1.777.840.01	Rotary potentiometer	
	1	1.777.100.36	Knob rotary D.25	
	1	1.777.100.37	Knob rotary disc type	
21	1	1.777.450.03	Potentiometer 50k	
	1	1.777.100.38	Knob rotary D.15-6	
22	1	1.777.462.00	Volume switch PCB	
	1	1.725.810.02	Rotary switch	
	1	1.777.100.38	Knob rotary D.15-6	
	1	1.010.024.58	Potentiometer 5k	
	1	1.777.100.48	Knob rottary D.15-4	
	1	1.710.350.02	Jack socket	
23	2	1.777.100.28	Rubber mat 3	
24	2	1.777.460.01	VU-Meter	
25	1	1.777.010.02	Cabinet	
26	2	1.777.010.07	Bracket rack mount.	
27	1	1.177.435.00	Tape cutter	
28	1	1.777.011.00	Cover tape transport	
29	2	1.777.100.03	Frame	
30	3	21.51.2464	Flat allen screw M4x30	
31	1	1.777.010.10	Cover/fuse/volt. sel.	
32	1	55.03.0286	Power switch	
	1	1.777.100.43	Pushbutton	
	1	1.777.100.09	Insulating foil	

## 7.3 BANDZUGWAAGE / TAPE TENSION SENSOR

